



DONGAN Electronics

Dong An Electronics Co., Ltd.

PRODUCT CATALOG

Since. 1981

EMI Service

Power Inductor

EMI/EMS Filter

Noise Filter



Contents

EMI service

EMI Chamber Service 002

Products List

SPI 004

SPIF 025

MMPI 043

PNL 053

BSL 091

TSL 092

BSH 094

CMF 095

CF 103



(주)동인전자

EMI Chamber service

EMC
(Electro Magnetic Compatibility)

EMI
(Electro Magnetic Interference)

EMS
(Electro Magnetic Susceptibility)

RE
(Radiated Emission)

RS
(Radiated Susceptibility)

CE
(Conducted Emission)

CS
(Conducted Susceptibility)



Acceptance Of
the reservation



Reservation
confirmation



EMI
evaluation



Issuance
of report



Analysis of
evaluation results

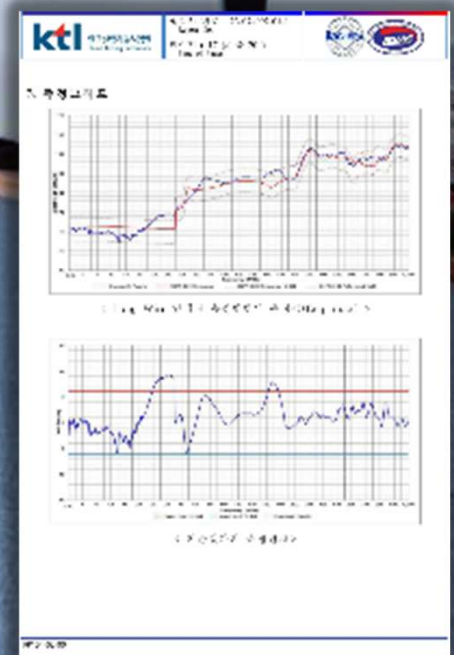


Debugging

EMI Chamber spec.

ES96200-00, CISPR, ISO11452, IEC61000, ETC. Exam possible

- ✓ Direct Current (DC) Type
 - Radiated Emission : 9kHz ~ 3GHz
 - Conducted Emission(Voltage method) : 100kHz ~ 150MHz
 - Conducted Emission(Current method) : 9kHz ~ 245MHz
- ✓ Alternating Current (AC) Type
 - Radiated Emission : 9kHz ~ 3GHz
 - Conducted Emission(Voltage method) : 9kHz ~ 30MHz
 - Conducted Emission(Current method) : 9kHz ~ 245MHz
- ✓ Power source
 - DC : 0V ~ 1,000V/200A Max.
 - AC : 220V/16A Max.



SPI040-12-SERIES-A



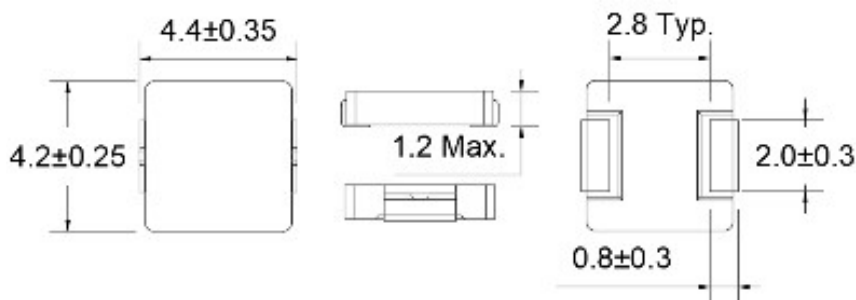
Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

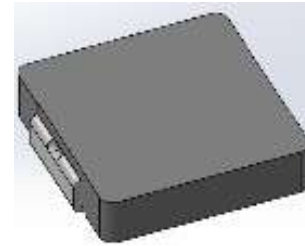
Environmental data

- Operating temperature range : -55°C ~ +155°C(component)
- Storage conditions (packaged) : -25°C ~ +40°C, ≤75% RH
- Complies with AEC-Q200 standard

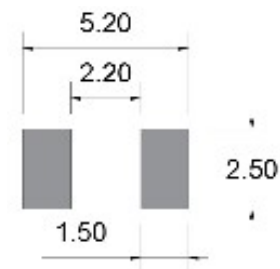
Dimensions [Unit : mm]



Picture



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(uH) 100kHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)	Heating Rating Current DC(A) b)
		TYP.	MAX.		
SPI040-12-R15M-A	0.15±20%	7.5	9	15	7.5
SPI040-12-R22M-A	0.22±20%	9.1	11	11	7
SPI040-12-R33M-A	0.33±20%	15.8	19	8.4	6.5
SPI040-12-R47M-A	0.47±20%	17.5	21	6.8	6
SPI040-12-R68M-A	0.68±20%	30	36	6	4.7
SPI040-12-1R0M-A	1.0±20%	39.1	47	5.5	4.5
SPI040-12-1R5M-A	1.5±20%	62.5	75	4	3.25
SPI040-12-2R2M-A	2.2±20%	69.5	83.5	3	2.75
SPI040-12-4R7M-A	4.7±20%	162.5	195	2.2	1.8

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 3,000
- * Box : 15,000

SPI040-20-SERIES-A



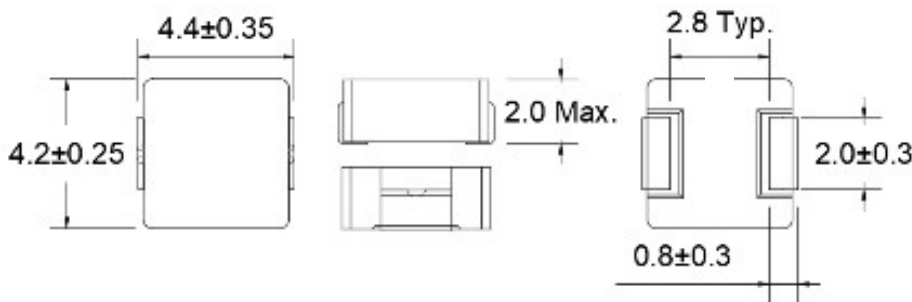
Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

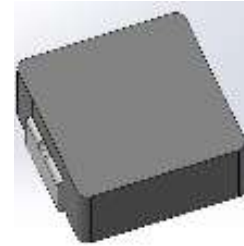
Environmental data

- Operating temperature range : -55°C ~ +155°C(component)
- Storage conditions (packaged) : -25°C ~ +40°C, ≤75% RH
- Complies with AEC-Q200 standard

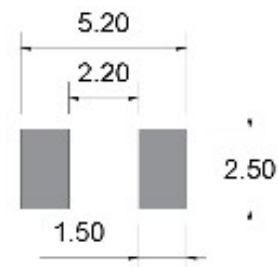
Dimensions [Unit : mm]



Picture



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(uH) 100kHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)	Heating Rating Current DC(A) b)
		TYP.	MAX.	TYP.	TYP.
SPI040-20-R10M-A	0.10±20%	3.3	4	22	13
SPI040-20-R22M-A	0.22±20%	5.5	6.6	12.5	9.5
SPI040-20-R33M-A	0.33±20%	9.1	11	12	10
SPI040-20-R47M-A	0.47±20%	11.6	14	9.5	7.5
SPI040-20-R56M-A	0.56±20%	13.3	16	9	7
SPI040-20-R68M-A	0.68±20%	15	18	8	7
SPI040-20-1R0M-A	1.0±20%	22.5	27	7	6
SPI040-20-1R2M-A	1.2±20%	22.5	27	6.5	6
SPI040-20-1R5M-A	1.5±20%	38.3	46	5.5	5
SPI040-20-2R2M-A	2.2±20%	48.3	58	5	4.5
SPI040-20-3R3M-A	3.3±20%	72.5	87	3.5	3.3
SPI040-20-4R7M-A	4.7±20%	87.5	105	3	2.8
SPI040-20-6R8M-A	6.8±20%	145.8	175	2.5	2.4
SPI040-20-100M-A	10.0±20%	235	282	2	1.6
SPI040-20-150M-A	15.0±20%	340	410	1.8	1.4

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 3,000
- * Box : 15,000

SPI050-18-SERIES-A



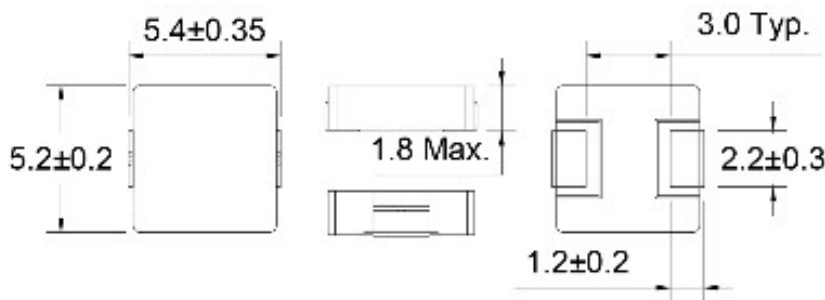
Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

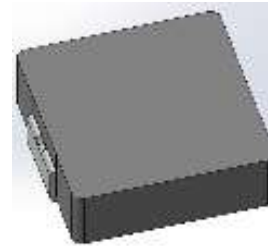
Environmental data

- Operating temperature range : -55°C ~ +155°C(component)
- Storage conditions (packaged) : -25°C ~ +40°C, ≤75% RH
- Complies with AEC-Q200 standard

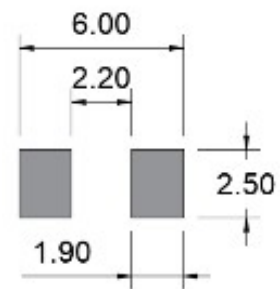
Dimensions [Unit : mm]



Picture



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(uH) 100kHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)	Heating Rating Current DC(A) b)
		TYP.	MAX.	TYP.	TYP.
SPI050-18-R47M-A	0.47 ± 20%	7.5	9	15.5	10.5
SPI050-18-R56M-A	0.56 ± 20%	8.3	10	15	9.5
SPI050-18-R68M-A	0.68 ± 20%	11.5	13.8	11.2	8.9
SPI050-18-1R0M-A	1.0 ± 20%	14.1	17	9	8
SPI050-18-1R5M-A	1.5 ± 20%	21.6	26	8	7.5
SPI050-18-2R2M-A	2.2 ± 20%	29.1	35	6.5	5
SPI050-18-3R3M-A	3.3 ± 20%	48.3	58	5	4.5
SPI050-18-4R7M-A	4.7 ± 20%	70.8	85	4	3.5
SPI050-18-6R8M-A	6.8 ± 20%	100	120	3.4	2.8
SPI050-18-100M-A	10.0 ± 20%	129.1	155	3	2.5

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 2,000
- * Box : 10,000

SPI050-30-SERIES-A



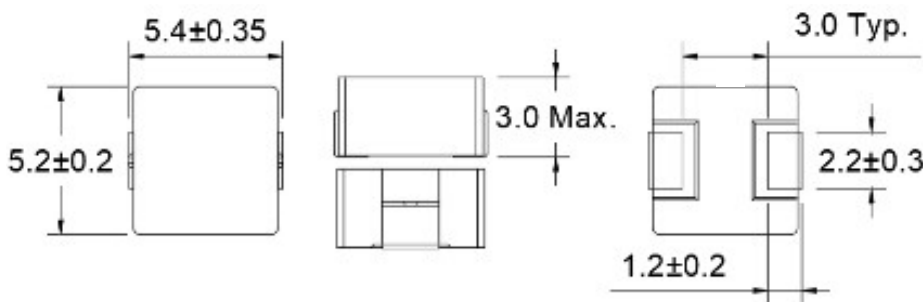
Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

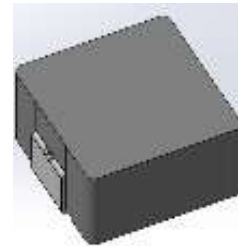
Environmental data

- Operating temperature range : -55℃ ~ +155℃(component)
- Storage conditions (packaged) : -25℃ ~ +40℃, ≤75% RH
- Complies with AEC-Q200 standard

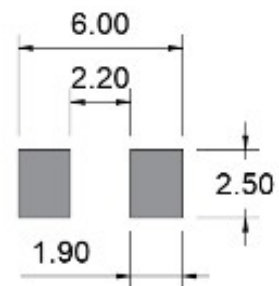
Dimensions [Unit : mm]



Picture



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(uH) 100kHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)	Heating Rating Current DC(A) b)
		TYP.	MAX.	TYP.	TYP.
SPI050-30-R10M-A	0.10±20%	2.5	3	30	25
SPI050-30-R20M-A	0.20±20%	3.2	3.9	20	14
SPI050-30-R33M-A	0.33±20%	4.5	5.5	18	14
SPI050-30-R47M-A	0.47±20%	7	8.5	15	11
SPI050-30-R68M-A	0.68±20%	10	12	11.5	9
SPI050-30-1R0M-A	1.0±20%	11.6	14	10	8.5
SPI050-30-1R2M-A	1.2±20%	13.3	16	9.5	8.5
SPI050-30-1R5M-A	1.5±20%	20.8	25	9	8.2
SPI050-30-2R2M-A	2.2±20%	24.1	29	7	7
SPI050-30-3R3M-A	3.3±20%	31.6	38	6	5.5
SPI050-30-4R7M-A	4.7±20%	50	60	4.6	4.5
SPI050-30-6R8M-A	6.8±20%	75	90	3.6	3.5
SPI050-30-100M-A	10.0±20%	104.1	125	3.5	3.2
SPI050-30-220M-A	22.0±20%	206.6	248	2.3	1.7

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 2,000
- * Box : 10,000

SPI070-12-SERIES-A



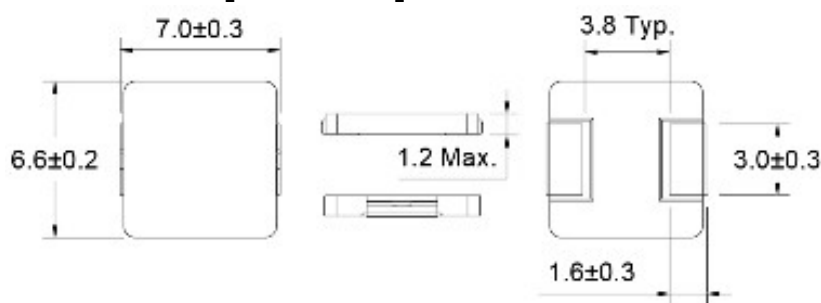
Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

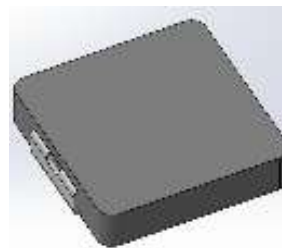
Environmental data

- Operating temperature range : -55℃ ~ +155℃(component)
- Storage conditions (packaged) : -25℃ ~ +40℃, ≤75% RH
- Complies with AEC-Q200 standard

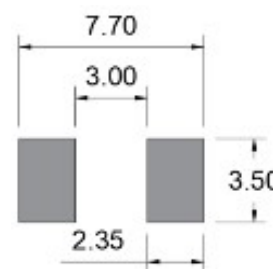
Dimensions [Unit : mm]



Picture



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(uH) 100kHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)	Heating Rating Current DC(A) b)
		TYP.	MAX.	TYP.	TYP.
SPI070-12-1R0M-A	1.0±20%	25	30	6	5
SPI070-12-2R2M-A	2.2±20%	50.8	61	4.5	3.5
SPI070-12-3R3M-A	3.3±20%	79.1	95	4	3
SPI070-12-4R7M-A	3.3±20%	85.8	103	3.6	2.6

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 2,000
- * Box : 10,000

SPI070-15-SERIES-A



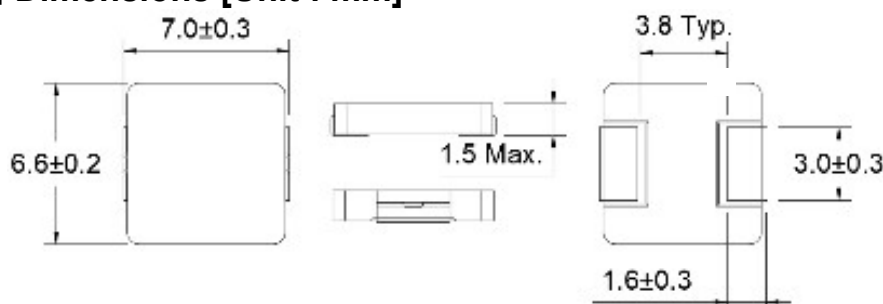
Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

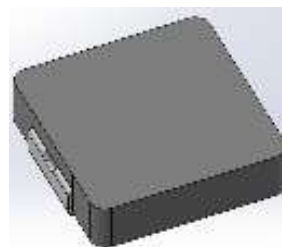
Environmental data

- Operating temperature range : -55°C ~ +155°C(component)
- Storage conditions (packaged) : -25°C ~ +40°C, ≤75% RH
- Complies with AEC-Q200 standard

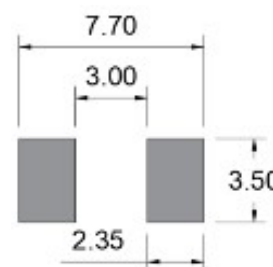
Dimensions [Unit : mm]



Picture



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(uH) 100kHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)	Heating Rating Current DC(A) b)
		TYP.	MAX.	TYP.	TYP.
SPI070-15-R47M-A	0.47 ± 20%	7.1	8.5	16	10
SPI070-15-R56M-A	0.56 ± 20%	9.1	11	14	9
SPI070-15-R68M-A	0.68 ± 20%	10	12	12	8.5
SPI070-15-R82M-A	0.82 ± 20%	14.1	17	10	8
SPI070-15-1R0M-A	1.0 ± 20%	17.5	21	9	6
SPI070-15-2R2M-A	2.2 ± 20%	45	54	7	3.8
SPI070-15-3R3M-A	3.3 ± 20%	52.5	63	5.5	3.5
SPI070-15-4R7M-A	4.7 ± 20%	70.8	85	5	3.2
SPI070-15-6R8M-A	6.8 ± 20%	112.5	135	4	2.5
SPI070-15-100M-A	10.0 ± 20%	145.8	175	3	2

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 2,000
- * Box : 10,000

SPI070-18-SERIES-A



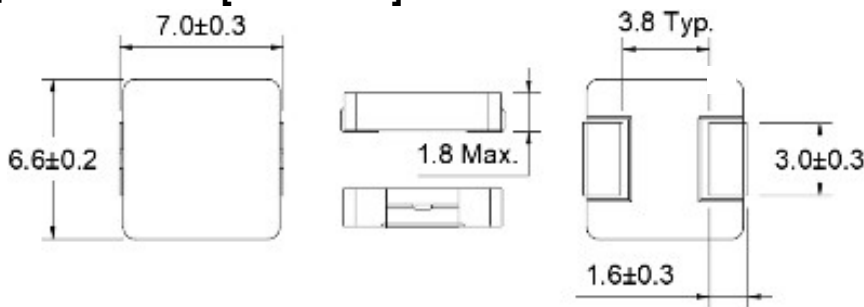
Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

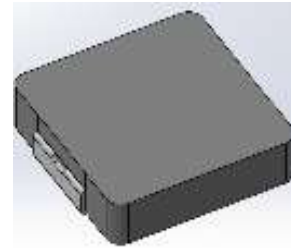
Environmental data

- Operating temperature range : -55°C ~ +155°C(component)
- Storage conditions (packaged) : -25°C ~ +40°C, ≤75% RH
- Complies with AEC-Q200 standard

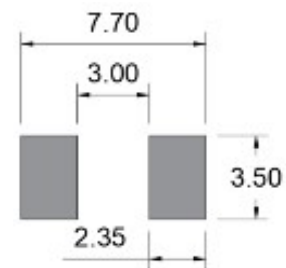
Dimensions [Unit : mm]



Picture



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(uH) 100kHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)	Heating Rating Current DC(A) b)
		TYP.	MAX.	TYP.	TYP.
SPI070-18-R10M-A	0.10 ± 20%	1.9	2.3	38	25
SPI070-18-R22M-A	0.22 ± 20%	2.9	3.5	24	22
SPI070-18-R47M-A	0.47 ± 20%	7	8.4	18	11.5
SPI070-18-R68M-A	0.68 ± 20%	10	12	16.5	9.5
SPI070-18-1R0M-A	1.0 ± 20%	13.3	16	12	8.5
SPI070-18-1R5M-A	1.5 ± 20%	21.6	26	9.2	8
SPI070-18-2R2M-A	2.2 ± 20%	29.1	35	8	7
SPI070-18-3R3M-A	3.3 ± 20%	41.6	50	6	4.5
SPI070-18-4R7M-A	4.7 ± 20%	51.6	62	5	4
SPI070-18-6R8M-A	6.8 ± 20%	91.6	110	4.5	3
SPI070-18-100M-A	10.0 ± 20%	129.1	155	4	2.3
SPI070-18-220M-A	22.0 ± 20%	291.6	350	2.3	1.8

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 2,000
- * Box : 10,000

SPI070-24-SERIES-A



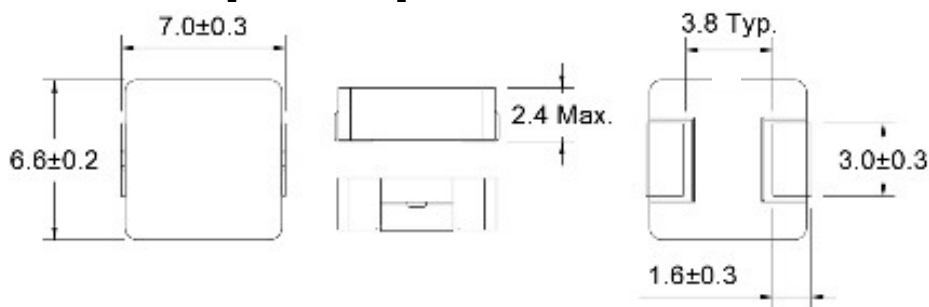
Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

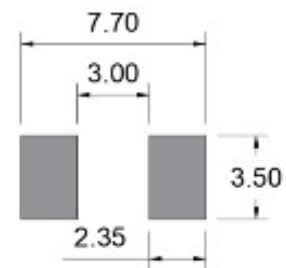
Environmental data

- Operating temperature range : -55°C ~ +155°C(component)
- Storage conditions (packaged) : -25°C ~ +40°C, ≤75% RH
- Complies with AEC-Q200 standard

Dimensions [Unit : mm]



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(uH) 100kHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)	Heating Rating Current DC(A) b)
		TYP.	MAX.	TYP.	TYP.
SPI070-24-R22M-A	0.22±20%	2.5	3	34	21
SPI070-24-R33M-A	0.33±20%	3.4	4.1	24.5	18
SPI070-24-R47M-A	0.47±20%	4.2	5.1	22	15
SPI070-24-R56M-A	0.56±20%	5.4	6.5	17	13
SPI070-24-R68M-A	0.68±20%	5.8	7	16	12
SPI070-24-1R0M-A	1.0±20%	11.2	13.5	15	9
SPI070-24-1R5M-A	1.5±20%	16.6	20	13.5	8.2
SPI070-24-2R2M-A	2.2±20%	23.3	28	10	7
SPI070-24-3R3M-A	3.3±20%	32.5	39	8	5.5
SPI070-24-4R7M-A	4.7±20%	41.6	50	6.5	5
SPI070-24-6R8M-A	6.8±20%	58.3	70	6	4
SPI070-24-100M-A	10.0±20%	84.1	101	4	3.1
SPI070-24-150M-A	15.0±20%	133.3	160	3.3	2.5
SPI070-24-220M-A	22.0±20%	191.6	230	2.5	2

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 1,500
- * Box : 7,500

SPI070-30-SERIES-A



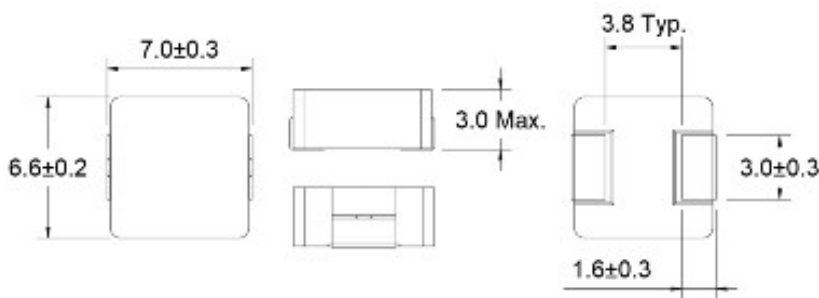
Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

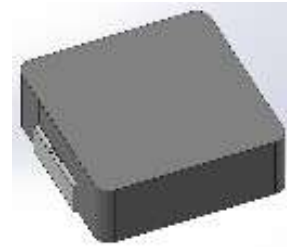
Environmental data

- Operating temperature range : -55°C ~ +155°C(component)
- Storage conditions (packaged) : -25°C ~ +40°C, ≤75% RH
- Complies with AEC-Q200 standard

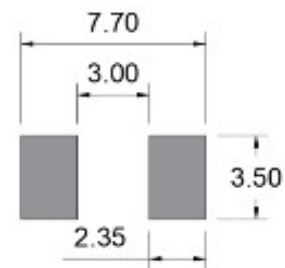
Dimensions [Unit : mm]



Picture



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(uH) 100kHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)	Heating Rating Current DC(A) b)
		TYP.	MAX.	TYP.	TYP.
SPI070-30-R22M-A	0.22±20%	2.5	3	34	24
SPI070-30-R33M-A	0.33±20%	2.9	3.5	25	21
SPI070-30-R47M-A	0.47±20%	3.4	4.1	20	18
SPI070-30-R56M-A	0.56±20%	3.7	4.5	18	16.5
SPI070-30-R68M-A	0.68±20%	4.4	5.3	17	16
SPI070-30-R82M-A	0.82±20%	5	6	16	14
SPI070-30-1R0M-A	1.0±20%	6.1	7.4	15	12
SPI070-30-1R5M-A	1.5±20%	10.1	12.1	12	12
SPI070-30-1R8M-A	1.8±20%	11.3	13.6	11	10.7
SPI070-30-2R2M-A	2.2±20%	12.5	15	10	9.5
SPI070-30-3R3M-A	3.3±20%	18.3	22	9.5	8.5
SPI070-30-4R7M-A	4.7±20%	27.5	33	9	6
SPI070-30-5R6M-A	5.6±20%	35	42	6.5	5.5
SPI070-30-6R8M-A	6.8±20%	40	48	6	5
SPI070-30-8R2M-A	8.2±20%	50	60	5.5	5
SPI070-30-100M-A	10.0±20%	56.6	68	5.5	4.5
SPI070-30-150M-A	15.0±20%	94.1	113	4	3
SPI070-30-220M-A	22.0±20%	141.6	170	3	2.5
SPI070-30-330M-A	33.0±20%	225	270	2.5	2
SPI070-30-470M-A	47.0±20%	320.8	385	2	1.5

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 1,000
- * Box : 5,000

SPI070-40-SERIES-A



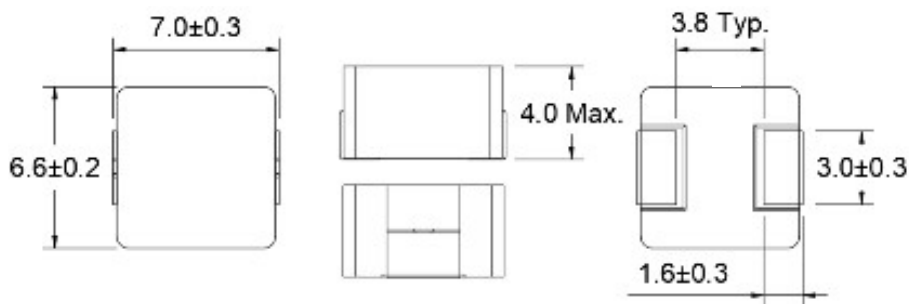
Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

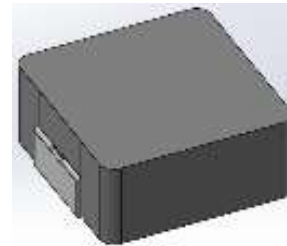
Environmental data

- Operating temperature range : -55°C ~ +155°C(component)
- Storage conditions (packaged) : -25°C ~ +40°C, ≤75% RH
- Complies with AEC-Q200 standard

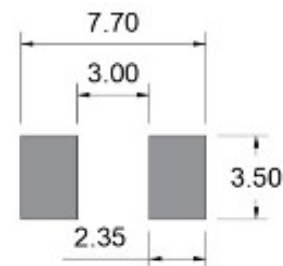
Dimensions [Unit : mm]



Picture



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(uH) 100kHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)	Heating Rating Current DC(A) b)
		TYP.	MAX.	TYP.	TYP.
SPI070-40-R68M-A	0.68±20%	4	4.8	19	17
SPI070-40-1R0M-A	1.0±20%	5.5	6.6	16	13.5
SPI070-40-1R5M-A	1.5±20%	8.3	10	12.5	12.4
SPI070-40-2R2M-A	2.2±20%	11.6	14	11	10
SPI070-40-3R3M-A	3.3±20%	16.6	20	9.5	8.5
SPI070-40-4R7M-A	4.7±20%	25	30	9	6.5
SPI070-40-6R8M-A	6.8±20%	37.5	45	6.5	5.5
SPI070-40-8R2M-A	8.2±20%	45.8	55	6	5.2
SPI070-40-100M-A	10.0±20%	54.1	65	6	4.8
SPI070-40-150M-A	15.0±20%	79.1	95	4.5	3.7
SPI070-40-220M-A	22.0±20%	104.1	125	4	3.3
SPI070-40-330M-A	33.0±20%	200	240	3	2.2
SPI070-40-470M-A	47.0±20%	266.6	320	2.5	1.8

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 1,000
- * Box : 5,000

SPI070-50-SERIES-A



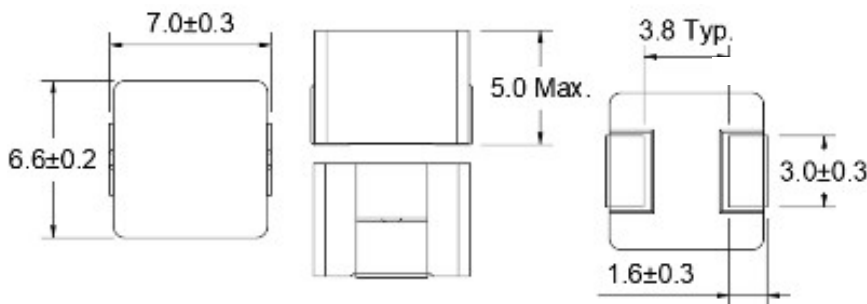
Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

Environmental data

- Operating temperature range : -55°C ~ +155°C(component)
- Storage conditions (packaged) : -25°C ~ +40°C, ≤75% RH
- Complies with AEC-Q200 standard

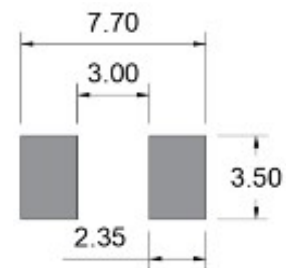
Dimensions [Unit : mm]



Picture



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(uH) 100kHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)	Heating Rating Current DC(A) b)
		TYP.	MAX.	TYP.	TYP.
SPI070-50-R47M-A	0.47±20%	3.2	3.9	21	20
SPI070-50-R68M-A	0.68±20%	3.7	4.5	18	16.5
SPI070-50-1R0M-A	1.0±20%	5.5	6.6	16	12
SPI070-50-1R5M-A	1.5±20%	8.3	10	13	9.5
SPI070-50-2R2M-A	2.2±20%	10.4	12.5	11	9
SPI070-50-3R3M-A	3.3±20%	18.3	22	10	8.5
SPI070-50-4R7M-A	4.7±20%	24.1	29	8	6
SPI070-50-6R8M-A	6.8±20%	34.1	41	6.3	5.8
SPI070-50-8R2M-A	8.2±20%	40	48	5.5	5.5
SPI070-50-100M-A	10.0±20%	50	60	5.3	4.5
SPI070-50-150M-A	15.0±20%	75	90	4	3.1
SPI070-50-220M-A	22.0±20%	116.6	140	3.5	2.6
SPI070-50-330M-A	33.0±20%	158.3	190	3	2.3
SPI070-50-470M-A	47.0±20%	191.6	230	2.6	2
SPI070-50-680M-A	68.0±20%	405	465	2	1.5

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 1,000
- * Box : 5,000

SPI075-54-SERIES-A



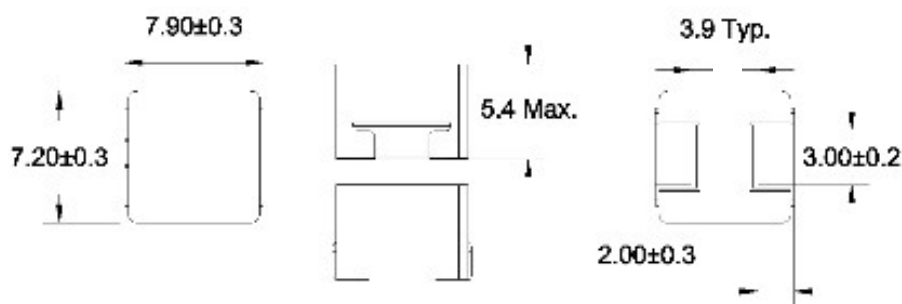
Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

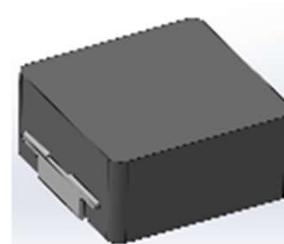
Environmental data

- Operating temperature range : -55°C ~ +155°C(component)
- Storage conditions (packaged) : -25°C ~ +40°C, ≤75% RH
- Complies with AEC-Q200 standard

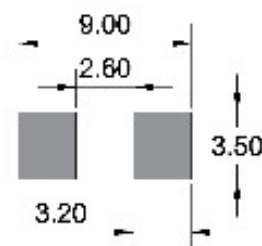
Dimensions [Unit : mm]



Picture



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(uH) 100kHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)	Heating Rating Current DC(A) b)
		TYP.	MAX.	TYP.	TYP.
SPI075-54-1R5M-A	1.5±20%	6	7.3	16.3	11.4
SPI075-54-2R2M-A	2.2±20%	9.5	11.4	14.8	9.7
SPI075-54-3R3M-A	3.3±20%	12.8	15.4	13.5	8
SPI075-54-4R7M-A	4.7±20%	17.4	20.9	13.1	7
SPI075-54-6R8M-A	6.8±20%	22.2	26.6	10.2	6.1
SPI075-54-8R2M-A	8.2±20%	26.5	31.9	9	5.6
SPI075-54-100M-A	10.0±20%	31.6	38	8	5.2
SPI075-54-150M-A	15.0±20%	55	66	6.9	3.8
SPI075-54-220M-A	22.0±20%	77.9	93.5	6.3	3.3
SPI075-54-330M-A	33.0±20%	106.3	127.6	4.9	3.2
SPI075-54-470M-A	47.0±20%	143	171.6	4.1	2.4
SPI075-54-560M-A	56.0±20%	174.4	209.3	3.3	2.2
SPI075-54-680M-A	68.0±20%	212.5	255	2.8	2
SPI075-54-101M-A	100.0±20%	290	348	2.4	1.8

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 500
- * Box : 2,500

SPI080-40-SERIES-A



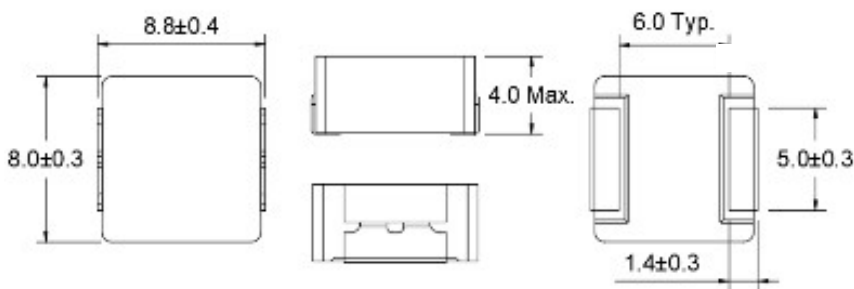
Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

Environmental data

- Operating temperature range : -55°C ~ +155°C(component)
- Storage conditions (packaged) : -25°C ~ +40°C, ≤75% RH
- Complies with AEC-Q200 standard

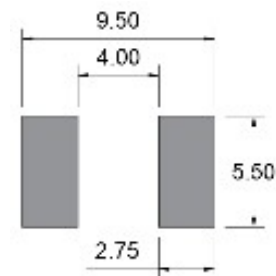
Dimensions [Unit : mm]



Picture



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(uH) 100kHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)	Heating Rating Current DC(A) b)
		TYP.	MAX.	TYP.	TYP.
SPI080-40-R22M-A	0.22 ± 20%	1.5	1.8	60	36
SPI080-40-R33M-A	0.33 ± 20%	2	2.4	45	30
SPI080-40-R47M-A	0.47 ± 20%	2.3	2.8	42	28
SPI080-40-R56M-A	0.56 ± 20%	2.6	3.2	26	24
SPI080-40-R68M-A	0.68 ± 20%	3.15	3.8	24	23
SPI080-40-R82M-A	0.82 ± 20%	3.65	4.4	21	21
SPI080-40-1R0M-A	1.0 ± 20%	3.85	4.62	19	19
SPI080-40-1R5M-A	1.5 ± 20%	6.35	7.6	17	17
SPI080-40-1R8M-A	1.8 ± 20%	9.1	11	15	15
SPI080-40-2R2M-A	2.2 ± 20%	9.5	11.4	14	14
SPI080-40-3R3M-A	3.3 ± 20%	12.5	15	12.5	12
SPI080-40-4R7M-A	4.7 ± 20%	22	26.5	11.5	9.5
SPI080-40-5R6M-A	5.6 ± 20%	25	30	11	9
SPI080-40-6R8M-A	6.8 ± 20%	30.6	36.8	9	8
SPI080-40-8R2M-A	8.2 ± 20%	38.3	46	8.7	7
SPI080-40-100M-A	10.0 ± 20%	49.1	59	8	6.5
SPI080-40-150M-A	15.0 ± 20%	59.1	71	5.5	5.4
SPI080-40-220M-A	22.0 ± 20%	94.1	113	5	4.8
SPI080-40-330M-A	33.0 ± 20%	130	156	3.5	3.5
SPI080-40-470M-A	47.0 ± 20%	187.5	225	3.1	2.9

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 800
- * Box : 3,200

SPI100-40-SERIES-A



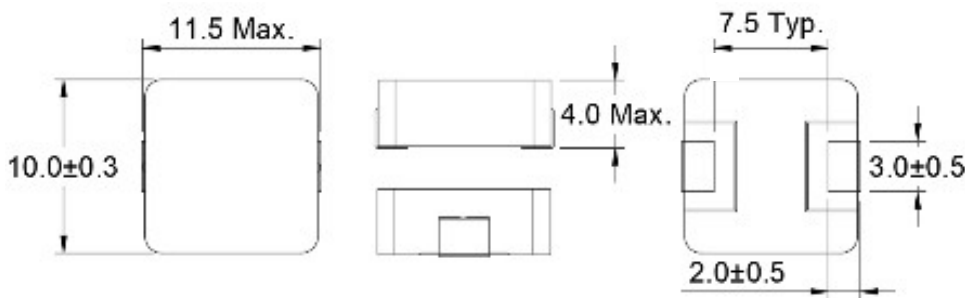
Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

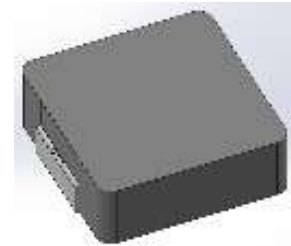
Environmental data

- Operating temperature range : -55°C ~ +155°C(component)
- Storage conditions (packaged) : -25°C ~ +40°C, ≤75% RH
- Complies with AEC-Q200 standard

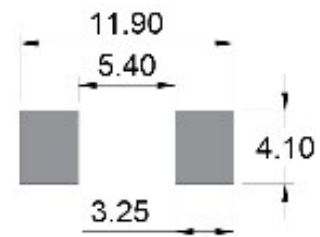
Dimensions [Unit : mm]



Picture



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(uH) 100kHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)	Heating Rating Current DC(A) b)
		TYP.	MAX.	TYP.	TYP.
SPI100-40-R22M-A	0.22±20%	0.8	1	60	35
SPI100-40-R36M-A	0.36±20%	1	1.2	45	30
SPI100-40-R47M-A	0.47±20%	1.4	1.7	40	30
SPI100-40-R68M-A	0.68±20%	2	2.4	30	23
SPI100-40-R80M-A	0.80±20%	2.2	2.7	29	23
SPI100-40-1R0M-A	1.0±20%	2.7	3.3	28	19
SPI100-40-1R5M-A	1.5±20%	3.5	4.2	24	16
SPI100-40-2R2M-A	2.2±20%	5.8	7	16.5	12
SPI100-40-3R3M-A	3.3±20%	9.8	11.8	16	11
SPI100-40-4R7M-A	4.7±20%	16.6	20	13	9
SPI100-40-6R8M-A	6.8±20%	20.8	25	12	8.5
SPI100-40-8R2M-A	8.2±20%	22.5	27	9	8
SPI100-40-100M-A	10.0±20%	25	30	8.5	7.8
SPI100-40-150M-A	15.0±20%	37.5	45	7	6.5
SPI100-40-220M-A	22.0±20%	55	66	5.5	5
SPI100-40-330M-A	33.0±20%	76.6	92	4.8	4.4
SPI100-40-470M-A	47.0±20%	120.8	145	3.5	3.3
SPI100-40-680M-A	68.0±20%	162.5	195	3	2.5
SPI100-40-820M-A	82.0±20%	237.5	285	2.8	2.3
SPI100-40-101M-A	100.0±20%	283.3	340	2.3	2

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 600
- * Box : 2,400

SPI100-50-SERIES-A



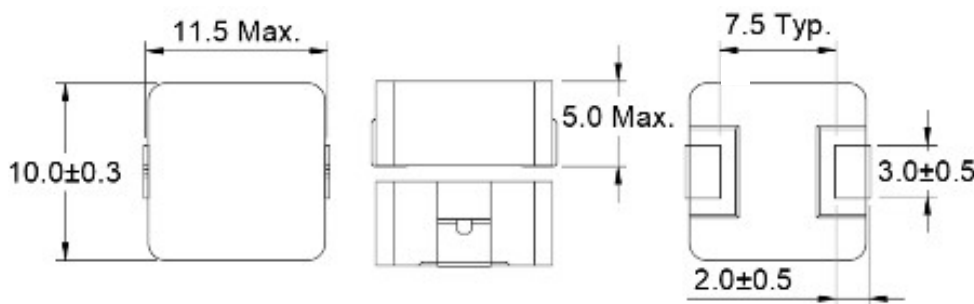
Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

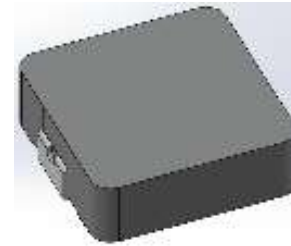
Environmental data

- Operating temperature range : -55°C ~ +155°C(component)
- Storage conditions (packaged) : -25°C ~ +40°C, ≤75% RH
- Complies with AEC-Q200 standard

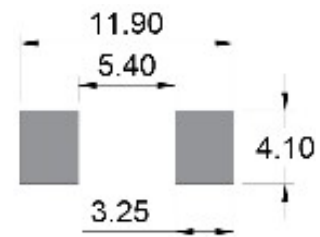
Dimensions [Unit : mm]



Picture



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(uH) 100kHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)	Heating Rating Current DC(A) b)
		TYP.	MAX.	TYP.	TYP.
SPI100-50-R22M-A	0.22±20%	0.6	0.8	65	37
SPI100-50-1R0M-A	1.0±20%	2.5	3	30	23
SPI100-50-1R5M-A	1.5±20%	3.1	3.8	25	21
SPI100-50-2R2M-A	2.2±20%	5	6	19	15
SPI100-50-3R3M-A	3.3±20%	8.3	10	16	13
SPI100-50-4R7M-A	4.7±20%	11.6	14	15	11
SPI100-50-5R6M-A	5.6±20%	14.1	17	14	9.5
SPI100-50-6R8M-A	6.8±20%	15.4	18.5	14	9
SPI100-50-100M-A	10.0±20%	23.3	28	10	8
SPI100-50-150M-A	15.0±20%	35	42	7.5	6.5
SPI100-50-220M-A	22.0±20%	41.6	50	6	5.5
SPI100-50-330M-A	33.0±20%	71.6	86	5.2	4.8
SPI100-50-470M-A	47.0±20%	105.8	127	4.5	3.7
SPI100-50-101M-A	100.0±20%	241.6	290	2.8	2.1

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 600
- * Box : 2,400

SPI130-40-SERIES-A



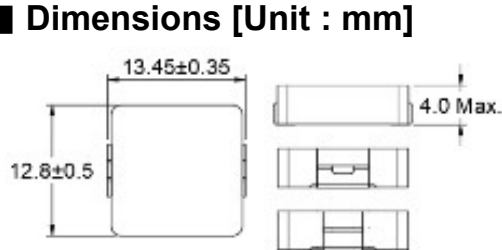
Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

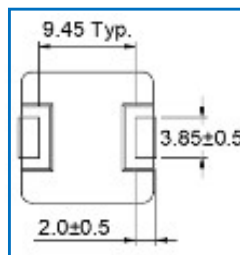
Environmental data

- Operating temperature range : -55℃ ~ +155℃(component)
- Storage conditions (packaged) : -25℃ ~ +40℃, ≤75% RH
- Complies with AEC-Q200 standard

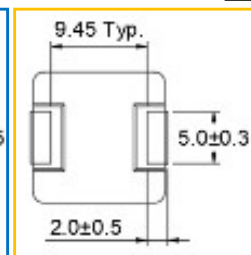
Dimensions [Unit : mm]



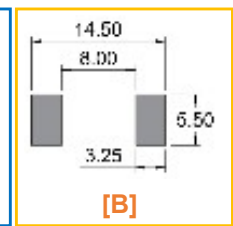
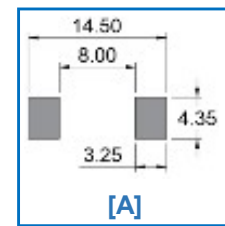
[A]



[B]



Land Pattern [Unit : mm]



Dimensions & Land Pattern	Part No.
[A]	R22/R47
[B]	R68/R82/1R0/1R5/2R2/3R3/4R7/6R8/100/150/220

Specifications

Part No.	L0 Inductance(uH) 100kHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)	Heating Rating Current DC(A) b)
		TYP.	MAX.	TYP.	TYP.
SPI130-40-R22M-A	0.22±20%	0.75	0.9	50	42
SPI130-40-R47M-A	0.47±20%	1.65	2	48	33
SPI130-40-R68M-A	0.68±20%	2.9	3.5	47	28
SPI130-40-R82M-A	0.82±20%	3.75	4.5	40	28
SPI130-40-1R0M-A	1.0±20%	6.2	7.5	35	24
SPI130-40-1R5M-A	1.5±20%	7.9	9.5	30.5	20
SPI130-40-2R2M-A	2.2±20%	9.5	11.5	26	18
SPI130-40-3R3M-A	3.3±20%	10.8	13	21	15
SPI130-40-4R7M-A	4.7±20%	12	14.5	18	13
SPI130-40-6R8M-A	6.8±20%	16.6	20	14	9
SPI130-40-100M-A	10.0±20%	20.8	25	10	8
SPI130-40-150M-A	15.0±20%	32.5	39	7.5	6.5
SPI130-40-220M-A	22.0±20%	42.5	51	6	4.5

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 600
- * Box : 2,400

SPI130-50-SERIES-A



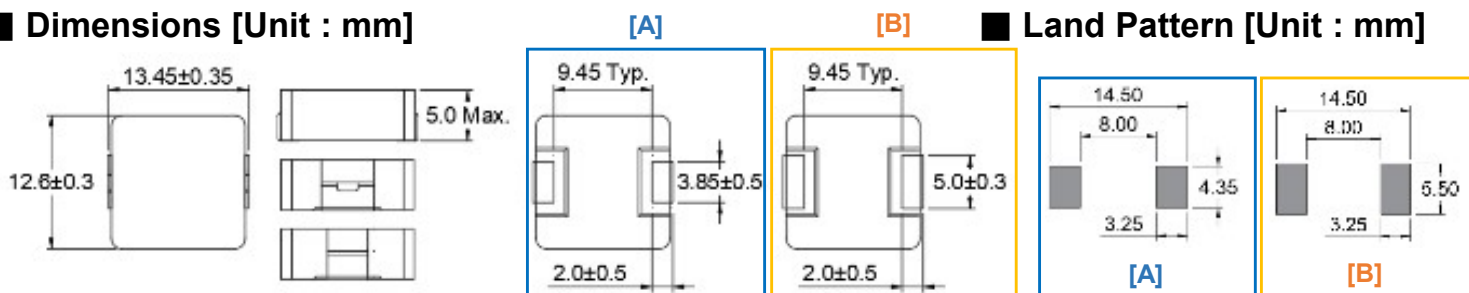
Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

Environmental data

- Operating temperature range : -55℃ ~ +155℃(component)
- Storage conditions (packaged) : -25℃ ~ +40℃, ≤75% RH
- Complies with AEC-Q200 standard

Dimensions [Unit : mm]



Land Pattern [Unit : mm]

Dimensions & Land Pattern	Part No.
[A]	R22/R36/R47/R50/R68/R82/1R0/1R5
[B]	2R2/3R3/4R7/6R8/8R2/100/150/220/330/470/680

Specifications

Part No.	L0 Inductance(uH) 100kHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)	Heating Rating Current DC(A) b)
		TYP.	MAX.	TYP.	TYP.
SPI130-50-R22M-A	0.22 ± 20%	0.58	0.7	75	50
SPI130-50-R36M-A	0.36 ± 20%	0.7	0.85	50	42
SPI130-50-R47M-A	0.47 ± 20%	0.91	1.09	49	39
SPI130-50-R50M-A	0.50 ± 20%	0.95	1.15	48	38
SPI130-50-R68M-A	0.68 ± 20%	1.29	1.55	46	33
SPI130-50-R82M-A	0.82 ± 20%	1.39	1.67	39	30
SPI130-50-1R0M-A	1.0 ± 20%	1.8	2.2	35	26
SPI130-50-1R5M-A	1.5 ± 20%	2.6	3.2	33	23
SPI130-50-2R2M-A	2.2 ± 20%	4.1	5	24	15
SPI130-50-3R3M-A	3.3 ± 20%	5.8	7	22	14
SPI130-50-4R7M-A	4.7 ± 20%	7.5	9	20	13
SPI130-50-6R8M-A	6.8 ± 20%	15	18	16	12
SPI130-50-8R2M-A	8.2 ± 20%	16.6	20	13	9.5
SPI130-50-100M-A	10.0 ± 20%	18.3	22	12	9
SPI130-50-150M-A	15.0 ± 20%	25	30	10	8
SPI130-50-220M-A	22.0 ± 20%	48.3	58	6.5	4.5
SPI130-50-330M-A	33.0 ± 20%	70	84	6	3.5
SPI130-50-470M-A	47.0 ± 20%	108.3	130	5	3
SPI130-50-680M-A	68.0 ± 20%	158.3	190	4	2.5

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 600
- * Box : 2,400

SPI130-60-SERIES-A



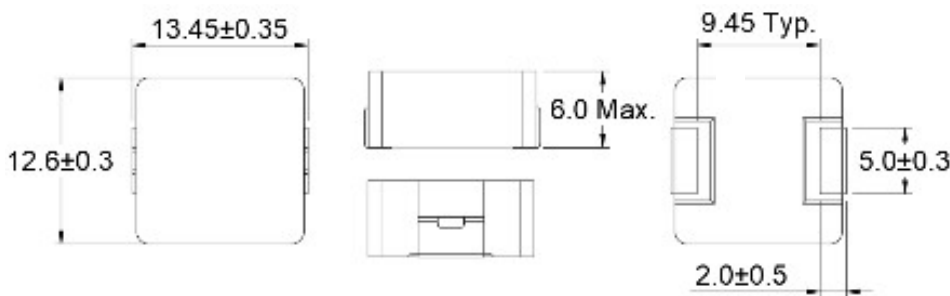
Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

Environmental data

- Operating temperature range : -55°C ~ +155°C(component)
- Storage conditions (packaged) : -25°C ~ +40°C, ≤75% RH
- Complies with AEC-Q200 standard

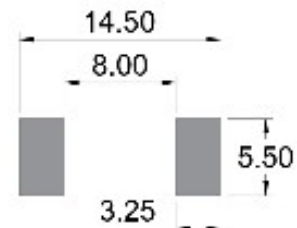
Dimensions [Unit : mm]



Picture



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(uH) 100kHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)	Heating Rating Current DC(A) b)
		TYP.	MAX.		
SPI130-60-1R0M-A	1.0±20%	1.8	2.3	31	28
SPI130-60-1R5M-A	1.5±20%	2.6	3.1	27	24
SPI130-60-2R2M-A	2.2±20%	3.7	4.5	24	21
SPI130-60-3R3M-A	3.3±20%	5.6	6.8	23.5	17.5
SPI130-60-4R7M-A	4.7±20%	7.5	9	23	15
SPI130-60-5R6M-A	5.6±20%	9.1	11	22.5	13
SPI130-60-6R8M-A	6.8±20%	11.2	13.5	19	12
SPI130-60-8R2M-A	8.2±20%	13.3	16	13.5	11
SPI130-60-100M-A	10.0±20%	17.2	20.7	12.5	10
SPI130-60-120M-A	12.0±20%	19.1	23	10	9
SPI130-60-150M-A	15.0±20%	24.1	29	9	8.5
SPI130-60-180M-A	18.0±20%	29.1	35	8	7.5
SPI130-60-220M-A	22.0±20%	32.9	39.5	7.5	7
SPI130-60-270M-A	27.0±20%	46.6	56	6.5	6
SPI130-60-330M-A	33.0±20%	62.5	75	6	5.5
SPI130-60-470M-A	47.0±20%	75	90	5.5	5
SPI130-60-680M-A	68.0±20%	116.6	140	4.5	4
SPI130-60-101M-A	100.0±20%	166.6	200	3.5	3
SPI130-60-121M-A	120.0±20%	195.8	235	3.2	2
SPI130-60-151M-A	150.0±20%	291.6	350	2.7	1.5

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 600
- * Box : 2,400

SPI130-65-SERIES-A



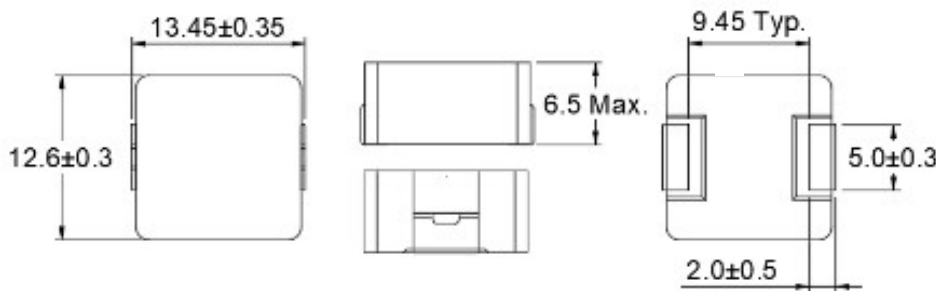
Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

Environmental data

- Operating temperature range : -55°C ~ +155°C(component)
- Storage conditions (packaged) : -25°C ~ +40°C, ≤75% RH
- Complies with AEC-Q200 standard

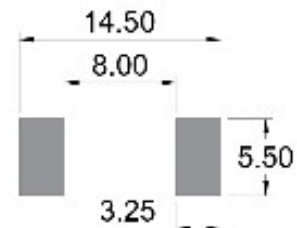
Dimensions [Unit : mm]



Picture



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(uH) 100kHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)	Heating Rating Current DC(A) b)
		TYP.	MAX.	TYP.	TYP.
SPI130-65-1R0M-A	1.0±20%	1.6	1.9	35	28
SPI130-65-1R5M-A	1.5±20%	2.4	2.9	30	25
SPI130-65-2R2M-A	2.2±20%	3.5	4.2	26	22
SPI130-65-3R3M-A	3.3±20%	5.5	6.7	25	20
SPI130-65-4R7M-A	4.7±20%	7	8.5	24	16
SPI130-65-5R6M-A	5.6±20%	8.7	10.5	22.5	14
SPI130-65-6R8M-A	6.8±20%	10	12	19	13
SPI130-65-8R2M-A	8.2±20%	11.6	14	16	12
SPI130-65-100M-A	10.0±20%	13.7	16.5	15	11
SPI130-65-150M-A	15.0±20%	21.6	26	11	9.5
SPI130-65-180M-A	18.0±20%	28	33.6	9.5	8.5
SPI130-65-220M-A	22.0±20%	30	36	9	8
SPI130-65-330M-A	33.0±20%	54.1	65	8	6.5
SPI130-65-470M-A	47.0±20%	58.3	70	6.8	5.5
SPI130-65-680M-A	68.0±20%	100	120	5.2	4.8
SPI130-65-820M-A	82.0±20%	112.5	135	4.5	4
SPI130-65-101M-A	100.0±20%	150	180	4	3.5

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 500
- * Box : 2,000

SPI170-70-SERIES-A



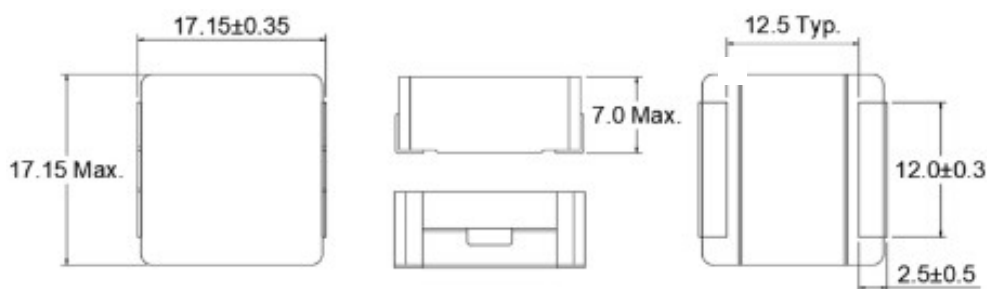
Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

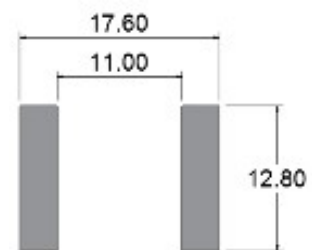
Environmental data

- Operating temperature range : -55°C ~ +155°C(component)
- Storage conditions (packaged) : -25°C ~ +40°C, ≤75% RH
- Complies with AEC-Q200 standard

Dimensions [Unit : mm]



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(uH) 100kHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)	Heating Rating Current DC(A) b)
		TYP.	MAX.	TYP.	TYP.
SPI170-70-1R0N-A	1.0±30%	1.5	1.8	45	40
SPI170-70-2R2M-A	2.2±20%	2.08	2.5	34	29
SPI170-70-3R3M-A	3.3±20%	3.29	3.95	30	24
SPI170-70-4R7M-A	4.7±20%	3.95	4.75	24	21
SPI170-70-6R8M-A	6.8±20%	6.25	7.5	22	17
SPI170-70-8R2M-A	8.2±20%	7.25	8.7	20	13
SPI170-70-100M-A	10.0±20%	8.25	9.9	19	12
SPI170-70-150M-A	15.0±20%	14.1	17	14.5	11
SPI170-70-220M-A	22.0±20%	19.1	23	11.5	8.5
SPI170-70-330M-A	33.0±20%	30.8	37	10	8
SPI170-70-470M-A	47.0±20%	39.1	47	7.5	6
SPI170-70-680M-A	68.0±20%	70.8	85	6.5	5.2
SPI170-70-101M-A	100.0±20%	108.3	130	5	3.7

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 200
- * Box : 600

SPI230-130-SERIES-A



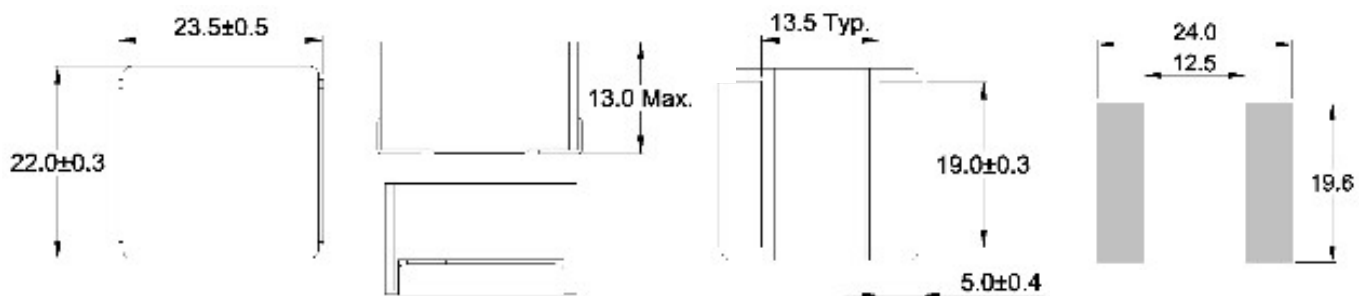
Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

Environmental data

- Operating temperature range : -55℃ ~ +155℃(component)
- Storage conditions (packaged) : -25℃ ~ +40℃, ≤75% RH
- Complies with AEC-Q200 standard

Dimensions [Unit : mm]



Land Pattern [Unit : mm]

Specifications

Part No.	L0 Inductance(uH) 100kHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)	Heating Rating Current DC(A) b)
		TYP.	MAX.	TYP.	TYP.
SPI230-130-1R0M-A	1.0±20%	0.8	0.95	60	70
SPI230-130-1R5M-A	1.5±20%	0.95	1.15	52	62
SPI230-130-2R2M-A	2.2±20%	1.05	1.25	48	58
SPI230-130-3R3M-A	3.3±20%	1.5	1.75	41	49
SPI230-130-4R7M-A	4.7±20%	1.9	2.2	38	47
SPI230-130-6R8M-A	6.8±20%	2.7	3.1	36	40
SPI230-130-100M-A	10.0±20%	3.8	4.15	28	33
SPI230-130-150M-A	15.0±20%	5.1	6.1	23	26
SPI230-130-220M-A	22.0±20%	9.2	11	15	22
SPI230-130-330M-A	33.0±20%	13.5	15.4	12	19
SPI230-130-470M-A	47.0±20%	17.3	20.8	12	17
SPI230-130-680M-A	68.0±20%	26.2	29.5	12	14
SPI230-130-820M-A	82.0±20%	31	34.2	9	12
SPI230-130-101M-A	100.0±20%	36	40	9	11

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 80
- * Box : 240

SPIF040-20-SERIES-A



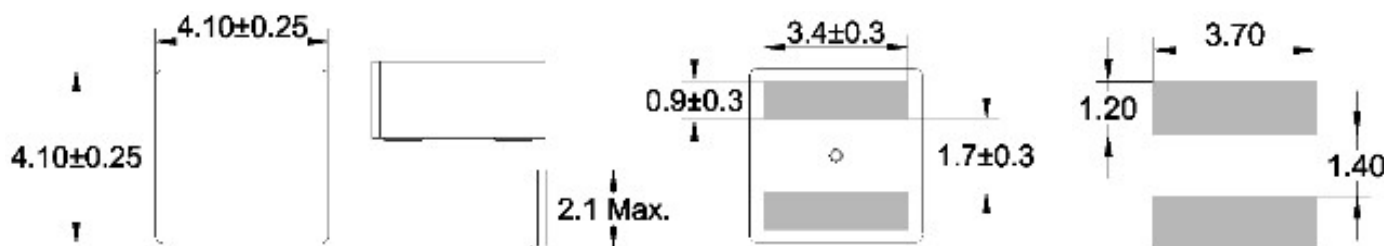
Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

Environmental data

- Operating temperature range : -55°C ~ +155°C(component)
- Storage conditions (packaged) : -25°C ~ +40°C, ≤75% RH
- Complies with AEC-Q200 standard

Dimensions [Unit : mm]



Land Pattern [Unit : mm]

Specifications

Part No.	L0 Inductance(uH) 100kHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)	Heating Rating Current DC(A) b)
		TYP.	MAX.	TYP.	TYP.
SPIF040-20-R10M-A	0.10±20%	2	2.4	38	18
SPIF040-20-R22M-A	0.22±20%	3.8	4.6	19.5	16.8
SPIF040-20-R36M-A	0.36±20%	5.2	6.3	17	14.5
SPIF040-20-R40M-A	0.40±20%	6.4	7.7	15.5	14
SPIF040-20-R47M-A	0.47±20%	7.2	8.6	14.5	12.5
SPIF040-20-R56M-A	0.56±20%	7.7	9.3	14	12
SPIF040-20-R60M-A	0.60±20%	7.9	9.5	13.7	11.7
SPIF040-20-R72M-A	0.72±20%	9.6	11.6	12	10.5
SPIF040-20-1R0M-A	1.0±20%	12.1	14.6	9.6	9.6
SPIF040-20-1R2M-A	1.2±20%	14.9	17.9	9	9
SPIF040-20-1R5M-A	1.5±20%	19.6	23.5	8	7.6
SPIF040-20-1R8M-A	1.8±20%	23.3	28	7.5	7
SPIF040-20-2R2M-A	2.2±20%	32.2	38.7	6.5	5.6

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 3,000
- * Box : 15,000

SPIF040-30-SERIES-A



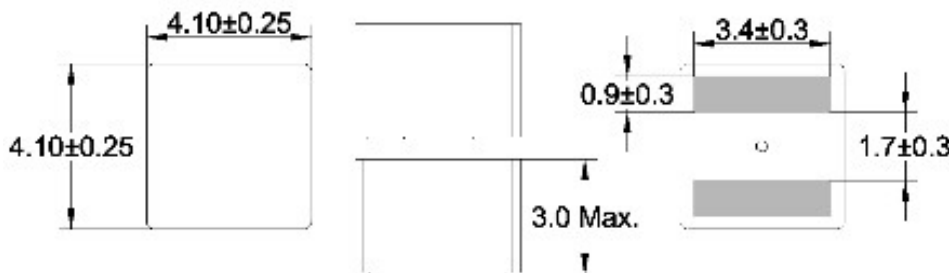
Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

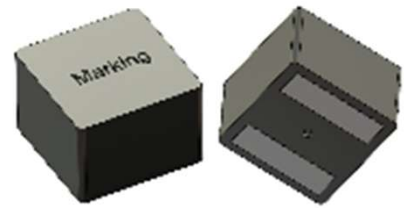
Environmental data

- Operating temperature range : -55℃ ~ +155℃(component)
- Storage conditions (packaged) : -25℃ ~ +40℃, ≤75% RH
- Complies with AEC-Q200 standard

Dimensions [Unit : mm]



Picture



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(uH) 100kHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a	Heating Rating Current DC(A) b
		TYP.	MAX.	TYP.	TYP.
SPIF040-30-R47M-A	0.47±20%	6	7.2	17	14
SPIF040-30-1R0M-A	1.0±20%	8.4	10.1	9.8	11
SPIF040-30-1R2M-A	1.2±20%	9.6	11.5	9.2	9.8
SPIF040-30-1R5M-A	1.5±20%	11	13.2	8	9
SPIF040-30-2R2M-A	2.2±20%	18.8	22.6	7	7.8
SPIF040-30-3R3M-A	3.3±20%	23.8	28.6	6.2	6.6
SPIF040-30-4R7M-A	4.7±20%	36.7	44.1	4.5	5.1
SPIF040-30-6R8M-A	6.8±20%	61.7	74.1	3.6	3.9

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 2,000
- * Box : 10,000

SPIF050-20-SERIES-A



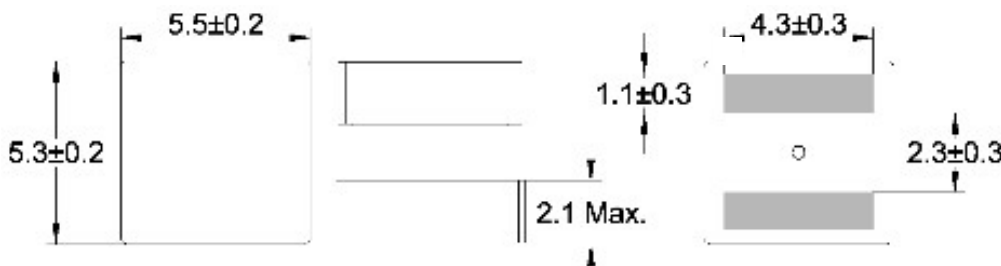
Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

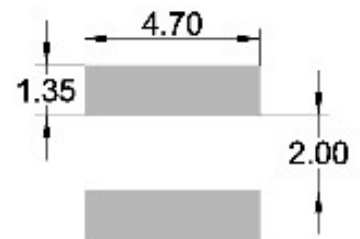
Environmental data

- Operating temperature range : -55°C ~ +155°C(component)
- Storage conditions (packaged) : -25°C ~ +40°C, ≤75% RH
- Complies with AEC-Q200 standard

Dimensions [Unit : mm]



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(uH) 100kHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)	Heating Rating Current DC(A) b)
		TYP.	MAX.	TYP.	TYP.
SPIF050-20-R16M-A	0.16±20%	3.8	4.6	30	18.8
SPIF050-20-R33M-A	0.33±20%	5.8	7	26	14.4
SPIF050-20-R47M-A	0.47±20%	6.6	8	22	14.1
SPIF050-20-R56M-A	0.56±20%	7.9	9.5	19	13.9
SPIF050-20-R68M-A	0.68±20%	8.5	10.2	16	13.4
SPIF050-20-R80M-A	0.80±20%	9.8	11.8	15.5	13
SPIF050-20-R82M-A	0.82±20%	10.6	12.7	15	12
SPIF050-20-1R0M-A	1.0±20%	11.5	13.8	14.5	10.5
SPIF050-20-1R2M-A	1.2±20%	13.6	16.3	14	9.4
SPIF050-20-1R5M-A	1.5±20%	15.6	18.7	13.3	8.8

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 3,000
- * Box : 15,000

SPIF050-30-SERIES-A



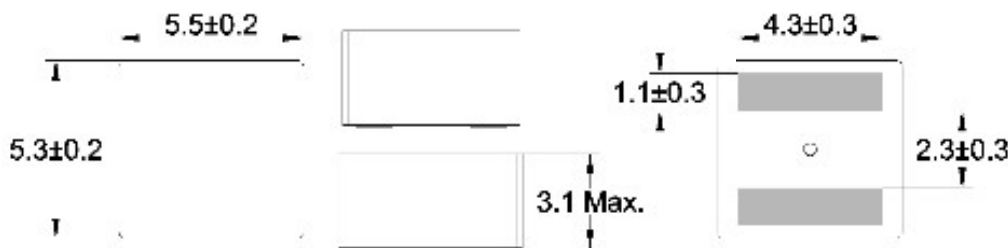
Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

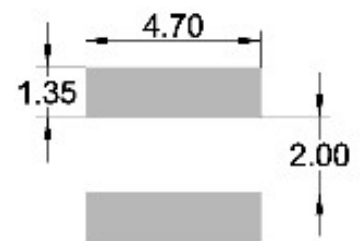
Environmental data

- Operating temperature range : -55°C ~ +155°C(component)
- Storage conditions (packaged) : -25°C ~ +40°C, ≤75% RH
- Complies with AEC-Q200 standard

Dimensions [Unit : mm]



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(uH) 100kHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)	Heating Rating Current DC(A) b)
		TYP.	MAX.	TYP.	TYP.
SPIF050-30-R16M-A	0.16±20%	1.9	2.3	35	22.2
SPIF050-30-R33M-A	0.33±20%	2.9	3.5	28	19.2
SPIF050-30-R47M-A	0.47±20%	3.4	4.1	26	18.4
SPIF050-30-R56M-A	0.56±20%	3.7	4.5	22.2	17.7
SPIF050-30-R82M-A	0.82±20%	4.8	5.8	19.7	12.9
SPIF050-30-1R0M-A	1.0±20%	6.3	7.6	16.5	12.2
SPIF050-30-1R2M-A	1.2±20%	8.1	9.7	15	11
SPIF050-30-1R5M-A	1.5±20%	9.3	11.2	14	10.5
SPIF050-30-1R8M-A	1.8±20%	10.6	12.7	12.3	10.1
SPIF050-30-2R2M-A	2.2±20%	12.1	14.5	10	9.7
SPIF050-30-3R3M-A	3.3±20%	19.3	23.1	9.5	8.1
SPIF050-30-4R7M-A	4.7±20%	30.3	36.3	8.2	5.9

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 2,000
- * Box : 10,000

SPIF050-50-SERIES-A



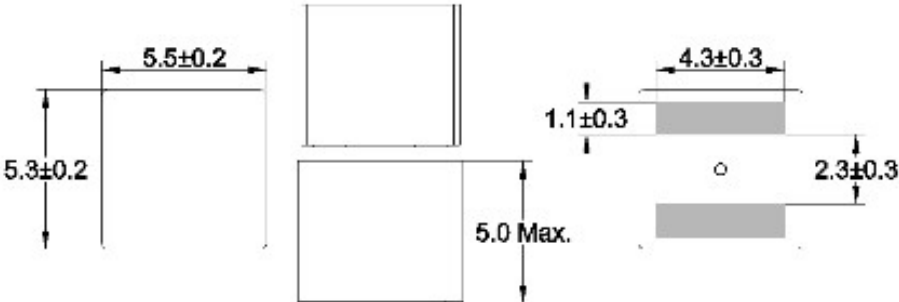
Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

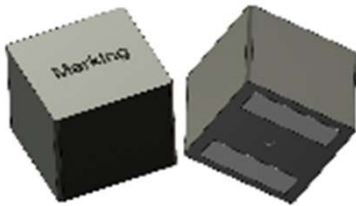
Environmental data

- Operating temperature range : -55℃ ~ +155℃(component)
- Storage conditions (packaged) : -25℃ ~ +40℃, ≤75% RH
- Complies with AEC-Q200 standard

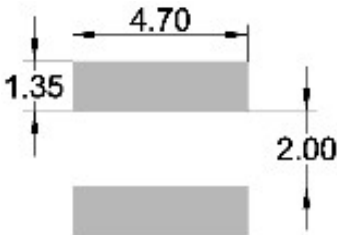
Dimensions [Unit : mm]



Picture



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(uH) 100kHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)	Heating Rating Current DC(A) b)
		TYP.	MAX.	TYP.	TYP.
SPIF050-50-5R6M-A	5.6±20%	20.1	24.2	8.6	7.2
SPIF050-50-6R8M-A	6.8±20%	23.8	28.6	7.8	6.4
SPIF050-50-8R2M-A	8.2±20%	27.1	32.5	7.2	6.1
SPIF050-50-100M-A	10.0±20%	35.8	43	6.5	5
SPIF050-50-150M-A	15.0±20%	63.9	76.7	3.7	3.9
SPIF050-50-220M-A	22.0±20%	83	99.6	3.6	3.4

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 1,500
- * Box : 7,500

SPIF060-30-SERIES-A



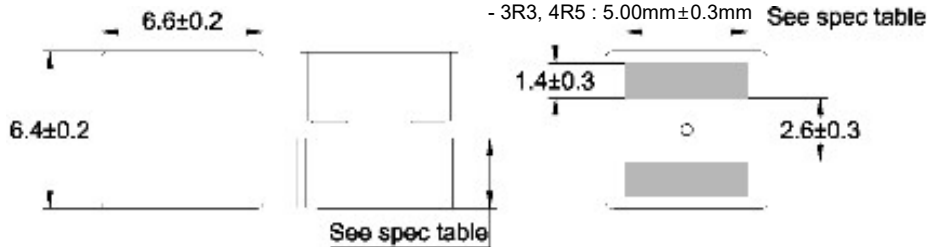
Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

Environmental data

- Operating temperature range : -55°C ~ +155°C(component)
- Storage conditions (packaged) : -25°C ~ +40°C, ≤75% RH
- Complies with AEC-Q200 standard

Dimensions [Unit : mm]

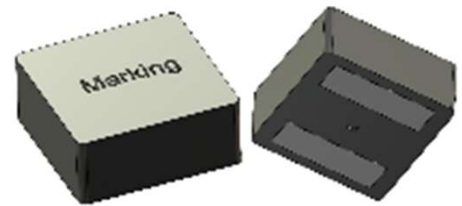


Specifications

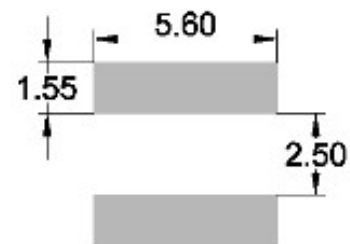
- R18 ~ 1R2 : 3.0mm Max.
- 1R5 ~ 4R5 : 3.1mm Max.

Part No.	L0 Inductance(uH) 100kHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a	Heating Rating Current DC(A) b
		TYP.	MAX.	TYP.	TYP.
SPIF060-30-R18M-A	0.18±20%	1.46	1.75	40	32
SPIF060-30-R33M-A	0.33±20%	2.1	2.5	32	25
SPIF060-30-R56M-A	0.56±20%	2.7	3.3	29	22
SPIF060-30-R68M-A	0.68±20%	4.3	5.15	25	20
SPIF060-30-1R0M-A	1.0±20%	5.05	6.05	23	18
SPIF060-30-1R2M-A	1.2±20%	6.2	7.4	22	16
SPIF060-30-1R5M-A	1.5±20%	7.6	9.1	20	15
SPIF060-30-1R8M-A	1.8±20%	8.5	10.2	18.2	14
SPIF060-30-2R2M-A	2.2±20%	10.2	12.2	15.9	10
SPIF060-30-3R3M-A	3.3±20%	17.3	20.8	12.2	8
SPIF060-30-4R5M-A	4.5±20%	21.1	25.3	10	7

Picture



Land Pattern [Unit : mm]



Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 1,000
- * Box : 5,000

SPIF060-50-SERIES-A



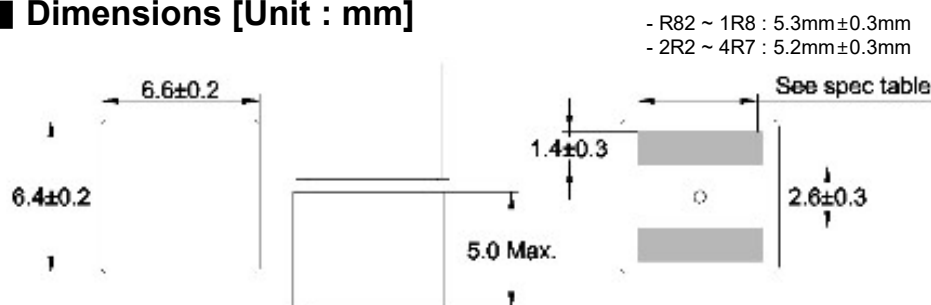
Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

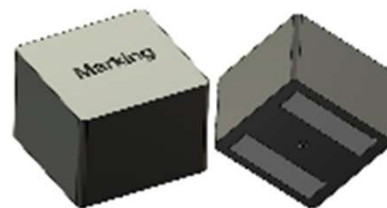
Environmental data

- Operating temperature range : -55°C ~ +155°C(component)
- Storage conditions (packaged) : -25°C ~ +40°C, ≤75% RH
- Complies with AEC-Q200 standard

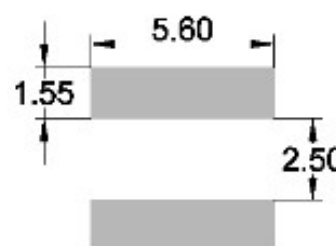
Dimensions [Unit : mm]



Picture



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(uH) 100kHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)	Heating Rating Current DC(A) b)
		TYP.	MAX.	TYP.	TYP.
SPIF060-50-R82M-A	0.82±20%	3.45	4.15	24	21
SPIF060-50-1R0M-A	1.0±20%	3.7	4.5	23	20
SPIF060-50-1R2M-A	1.2±20%	4.8	5.8	22	18
SPIF060-50-1R5M-A	1.5±20%	5.2	6.3	19.5	17
SPIF060-50-1R8M-A	1.8±20%	5.9	7.1	18.5	16
SPIF060-50-2R2M-A	2.2±20%	7.1	8.5	16	13
SPIF060-50-3R3M-A	3.3±20%	10.4	12.5	12.5	11
SPIF060-50-4R3M-A	4.3±20%	13.5	16.2	11	9
SPIF060-50-4R7M-A	4.7±20%	15.3	18.4	10.5	8.5

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 800
- * Box : 4,000

SPIF060-60-SERIES-A



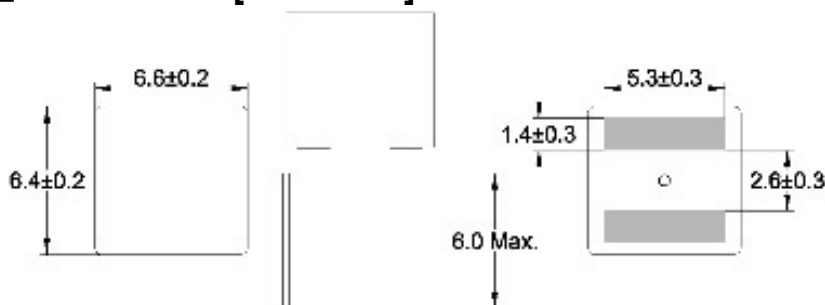
Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

Environmental data

- Operating temperature range : -55°C ~ +155°C(component)
- Storage conditions (packaged) : -25°C ~ +40°C, ≤75% RH
- Complies with AEC-Q200 standard

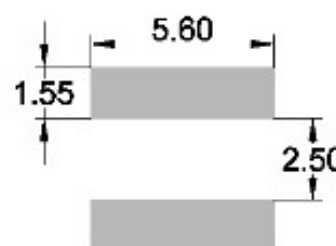
Dimensions [Unit : mm]



Picture



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(uH) 100kHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a	Heating Rating Current DC(A) b
		TYP.	MAX.	TYP.	TYP.
SPIF060-60-1R0M-A	1.0±20%	3.6	4.4	24	21
SPIF060-60-1R5M-A	1.5±20%	5.1	6.1	20	17.5
SPIF060-60-2R2M-A	2.2±20%	6.8	8.1	16.5	14
SPIF060-60-3R3M-A	3.3±20%	10.3	12.3	13	12
SPIF060-60-4R7M-A	4.7±20%	12	14.4	10.5	11
SPIF060-60-5R6M-A	5.6±20%	13.3	15.9	9.9	10
SPIF060-60-6R8M-A	6.8±20%	17.3	20.8	9.2	9
SPIF060-60-8R2M-A	8.2±20%	22	26.4	8.4	8
SPIF060-60-100M-A	10.0±20%	24.8	29.8	7.6	7
SPIF060-60-150M-A	15.0±20%	36.4	43.7	5.8	6
SPIF060-60-220M-A	22.0±20%	50.5	60.6	5.6	5

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 750
- * Box : 3,750

SPIF070-20-SERIES-A



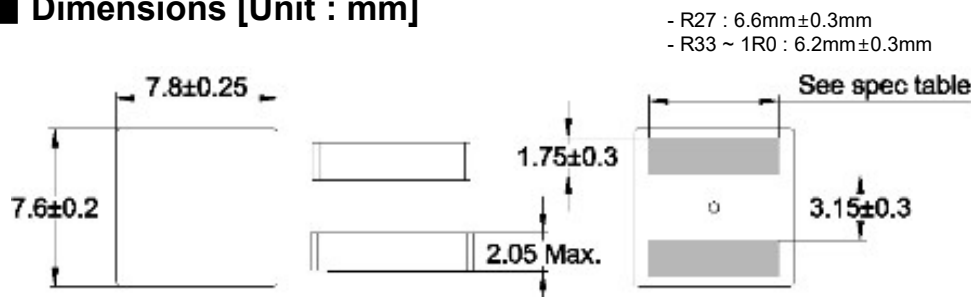
Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

Environmental data

- Operating temperature range : -55°C ~ +155°C(component)
- Storage conditions (packaged) : -25°C ~ +40°C, ≤75% RH
- Complies with AEC-Q200 standard

Dimensions [Unit : mm]



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(uH) 100kHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)	Heating Rating Current DC(A) b)
		TYP.	MAX.	TYP.	TYP.
SPIF070-20-R27M-A	0.27±20%	2.9	3.5	35	21
SPIF070-20-R33M-A	0.33±20%	4	4.8	34	19
SPIF070-20-R47M-A	0.47±20%	5.2	6.2	28	17
SPIF070-20-R68M-A	0.68±20%	7.7	9.2	25	13
SPIF070-20-1R0M-A	1.0±20%	9	10.8	23	11

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 2,000
- * Box : 10,000

SPIF070-30-SERIES-A



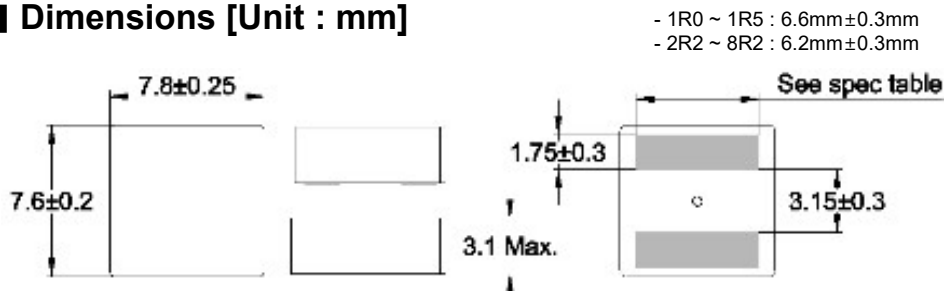
Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

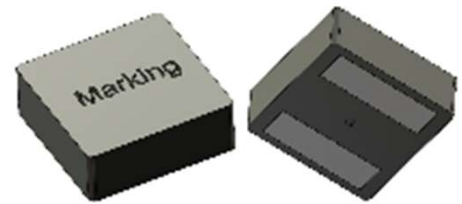
Environmental data

- Operating temperature range : -55°C ~ +155°C(component)
- Storage conditions (packaged) : -25°C ~ +40°C, ≤75% RH
- Complies with AEC-Q200 standard

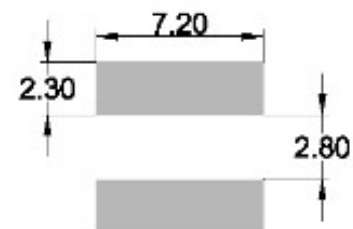
Dimensions [Unit : mm]



Picture



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(uH) 100kHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)	Heating Rating Current DC(A) b)
		TYP.	MAX.	TYP.	TYP.
SPIF070-30-1R0M-A	1.0±20%	4.2	5	30	21.8
SPIF070-30-1R5M-A	1.5±20%	6.8	8.2	25	15.3
SPIF070-30-2R2M-A	2.2±20%	11.4	13.7	19	13
SPIF070-30-2R7M-A	2.7±20%	12.8	15.4	16	11.4
SPIF070-30-3R3M-A	3.3±20%	15	18	15	10
SPIF070-30-4R7M-A	4.7±20%	22.2	26.7	13.5	9
SPIF070-30-5R6M-A	5.6±20%	27.6	33.2	12.5	7.3
SPIF070-30-6R8M-A	6.8±20%	35.4	42.5	12	6.8
SPIF070-30-8R2M-A	8.2±20%	40.6	48.7	10.2	5.9

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 1,500
- * Box : 7,500

SPIF070-70-SERIES-A



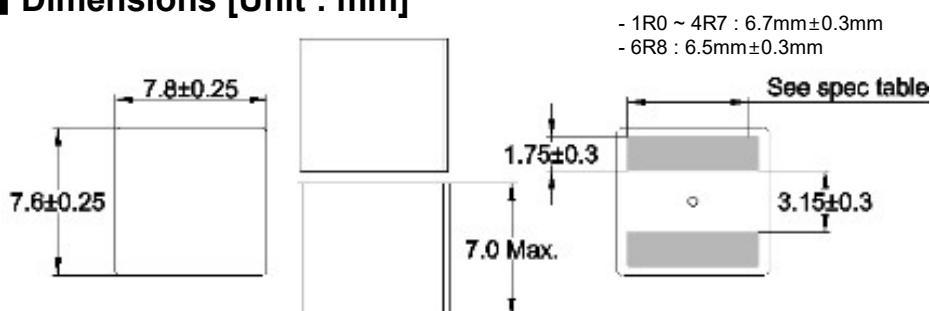
Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

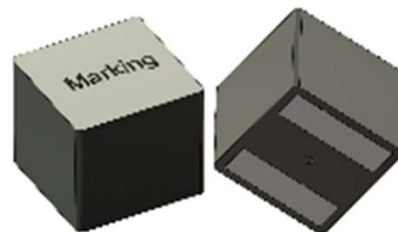
Environmental data

- Operating temperature range : -55°C ~ +155°C(component)
- Storage conditions (packaged) : -25°C ~ +40°C, ≤75% RH
- Complies with AEC-Q200 standard

Dimensions [Unit : mm]



Picture



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(uH) 100kHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)	Heating Rating Current DC(A) b)
		TYP.	MAX.	TYP.	TYP.
SPIF070-70-1R0M-A	1.0±20%	2.3	2.8	34.8	25
SPIF070-70-1R8M-A	1.8±20%	3.7	4.45	25	21
SPIF070-70-3R3M-A	3.3±20%	7.8	9.4	19.4	15.1
SPIF070-70-4R7M-A	4.7±20%	11.2	13.5	15.5	13.6
SPIF070-70-6R8M-A	6.8±20%	16.3	19.6	12.8	9.5

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 700
- * Box : 3,500

SPIF080-80-SERIES-A



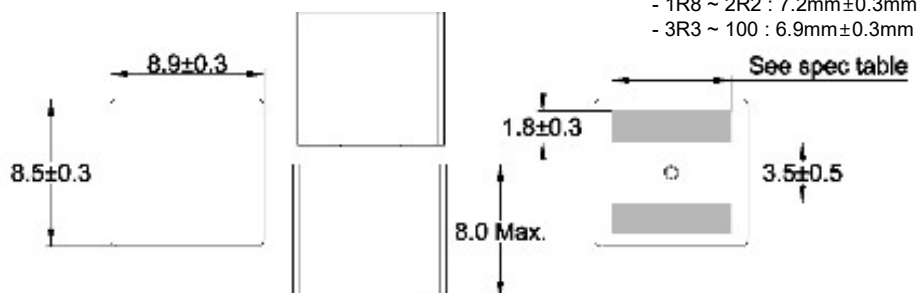
Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

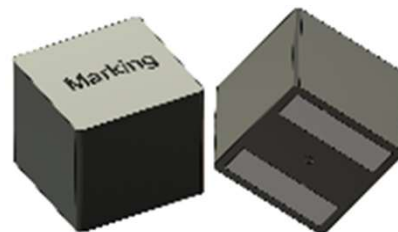
Environmental data

- Operating temperature range : -55°C ~ +155°C(component)
- Storage conditions (packaged) : -25°C ~ +40°C, ≤75% RH
- Complies with AEC-Q200 standard

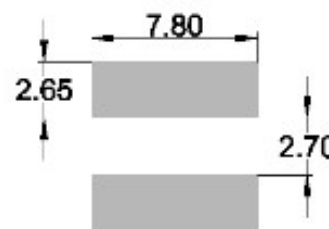
Dimensions [Unit : mm]



Picture



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(uH) 100kHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)	Heating Rating Current DC(A) b)
		TYP.	MAX.	TYP.	TYP.
SPIF080-80-1R8M-A	1.8±20%	3.3	4	28	24
SPIF080-80-2R2M-A	2.2±20%	3.6	4.3	25	21.5
SPIF080-80-3R3M-A	3.3±20%	6.1	7.3	23	18
SPIF080-80-4R7M-A	4.7±20%	8.2	9.8	19	14.6
SPIF080-80-6R8M-A	6.8±20%	11.9	14.3	14.5	11.3
SPIF080-80-100M-A	10.0±20%	19.1	22.9	11	8.7

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 450
- * Box : 1,800

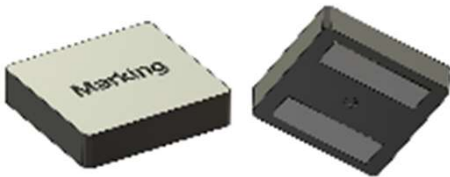
SPIF100-30-SERIES-A



Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

Picture



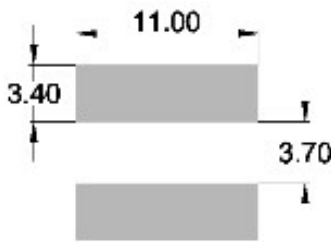
Environmental data

- Operating temperature range : -55°C ~ +155°C(component)
- Storage conditions (packaged) : -25°C ~ +40°C, ≤75% RH
- Complies with AEC-Q200 standard

Dimensions [Unit : mm]



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(uH) 100kHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)	Heating Rating Current DC(A) b)
		TYP.	MAX.	TYP.	TYP.
SPIF100-30-R28M-A	0.28±20%	1.3	1.6	65	35
SPIF100-30-R56M-A	0.56±20%	2.3	2.75	44	32
SPIF100-30-R82M-A	0.82±20%	3.4	4.1	38	25
SPIF100-30-R90M-A	0.9±20%	3.5	4.2	36	24
SPIF100-30-1R0M-A	1.0±20%	4.1	4.95	35	23
SPIF100-30-1R5M-A	1.5±20%	5.5	6.6	30	18

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 1,000
- * Box : 4,000

SPIF100-60-SERIES-A



Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

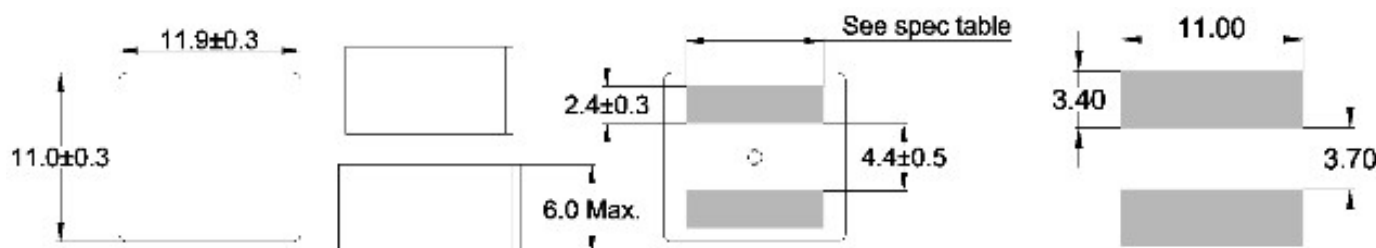
Environmental data

- Operating temperature range : -55°C ~ +155°C(component)
- Storage conditions (packaged) : -25°C ~ +40°C, ≤75% RH
- Complies with AEC-Q200 standard

Dimensions [Unit : mm]

- R68 : 9.5mm±0.5mm
- 1R0 ~ 4R7 : 9.0mm±0.5mm

Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(uH) 100kHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)	Heating Rating Current DC(A) b)
		TYP.	MAX.	TYP.	TYP.
SPIF100-60-R68M-A	0.68±20%	1.25	1.5	55	34
SPIF100-60-1R0M-A	1.0±20%	1.9	2.3	48	28.5
SPIF100-60-1R2M-A	1.2±20%	2.15	2.6	45	26.5
SPIF100-60-1R5M-A	1.5±20%	2.75	3.3	40	24.5
SPIF100-60-2R2M-A	2.2±20%	4	4.8	35	20
SPIF100-60-3R3M-A	3.3±20%	6.4	7.7	28	16.8
SPIF100-60-4R7M-A	4.7±20%	8.9	10.7	25	14

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 500
- * Box : 2,000

SPIF100-100-SERIES-A



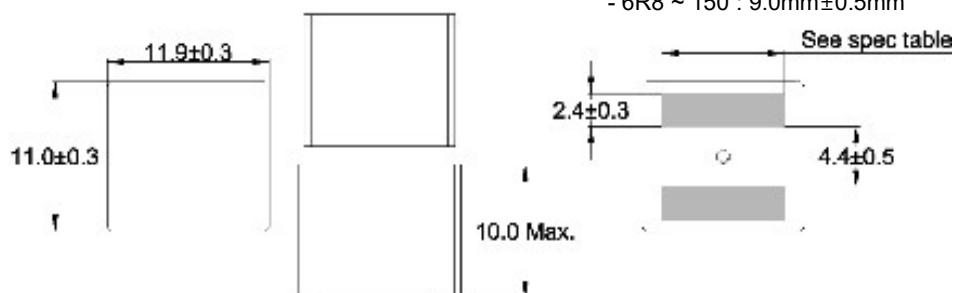
Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

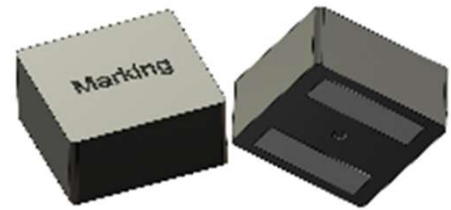
Environmental data

- Operating temperature range : -55°C ~ +155°C(component)
- Storage conditions (packaged) : -25°C ~ +40°C, ≤75% RH
- Complies with AEC-Q200 standard

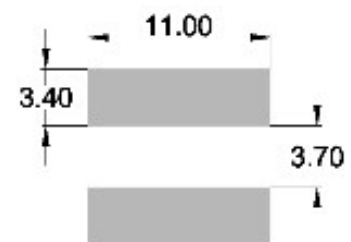
Dimensions [Unit : mm]



Picture



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(uH) 100kHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)	Heating Rating Current DC(A) b)
		TYP.	MAX.	TYP.	TYP.
SPIF100-100-2R2M-A	2.2±20%	2.3	2.8	34	32
SPIF100-100-3R3M-A	3.3±20%	3.4	4.1	27.4	25
SPIF100-100-4R7M-A	4.7±20%	4.7	5.7	25.4	24
SPIF100-100-5R6M-A	5.6±20%	6	7.2	23.6	21.2
SPIF100-100-6R8M-A	6.8±20%	7.4	8.9	21.8	18.5
SPIF100-100-8R2M-A	8.2±20%	10.3	12.4	18.3	17.1
SPIF100-100-100M-A	10.0±20%	11.4	13.7	17.5	15.5
SPIF100-100-150M-A	15.0±20%	16	19.3	15.5	13.8

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 300
- * Box : 1,200

SPIF150-80-SERIES-A



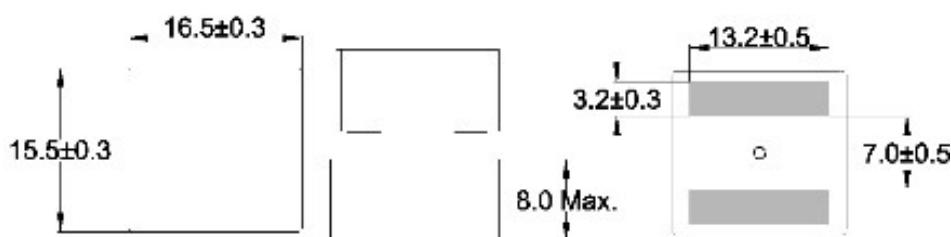
Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

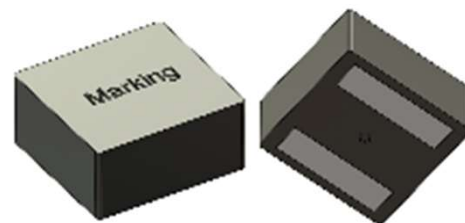
Environmental data

- Operating temperature range : -55°C ~ +155°C(component)
- Storage conditions (packaged) : -25°C ~ +40°C, ≤75% RH
- Complies with AEC-Q200 standard

Dimensions [Unit : mm]



Picture



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(uH) 100kHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a	Heating Rating Current DC(A) b
		TYP.	MAX.	TYP.	TYP.
SPIF150-80-2R0M-A	2.0±20%	1.8	2.2	57	40
SPIF150-80-2R2M-A	2.2±20%	2.05	2.45	55	37
SPIF150-80-3R0M-A	3.0±20%	2.5	3	46	34.5
SPIF150-80-4R2M-A	4.2±20%	3.85	4.65	38	27
SPIF150-80-5R3M-A	5.3±20%	4.4	5.3	35	26
SPIF150-80-6R2M-A	6.2±20%	5.4	6.5	34	23
SPIF150-80-7R2M-A	7.2±20%	6	7.2	32	21
SPIF150-80-8R2M-A	8.2±20%	6.6	7.9	28	19
SPIF150-80-100M-A	10.0±20%	8	9.6	24	16
SPIF150-80-150M-A	15.0±20%	12.5	15	21	13
SPIF150-80-220M-A	22.0±20%	19.3	23.2	19	12

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 200
- * Box : 600

SPIF150-100-SERIES-A



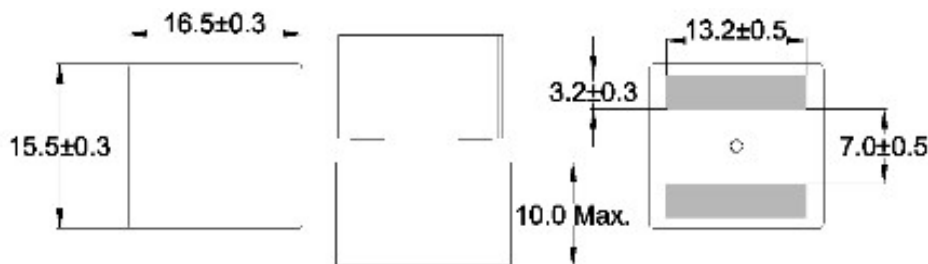
Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

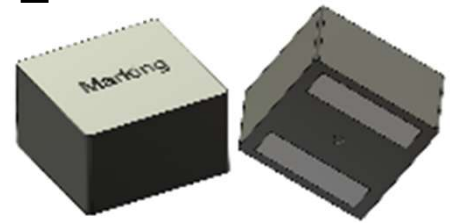
Environmental data

- Operating temperature range : -55°C ~ +155°C(component)
- Storage conditions (packaged) : -25°C ~ +40°C, ≤75% RH
- Complies with AEC-Q200 standard

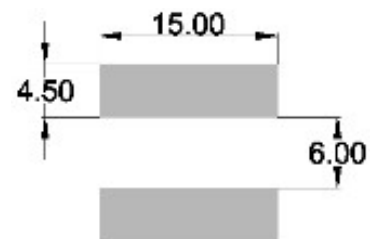
Dimensions [Unit : mm]



Picture



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(uH) 100kHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)	Heating Rating Current DC(A) b)
		TYP.	MAX.	TYP.	TYP.
SPIF150-100-4R7M-A	4.7±20%	3.2	3.8	43	30
SPIF150-100-5R6M-A	5.6±20%	3.5	4.2	38	28
SPIF150-100-6R8M-A	6.8±20%	3.8	4.6	36	26
SPIF150-100-8R2M-A	8.2±20%	6	7.2	32	25
SPIF150-100-100M-A	10.0±20%	7.2	8.6	29	24
SPIF150-100-150M-A	15.0±20%	9.6	11.5	20	18
SPIF150-100-220M-A	22.0±20%	13.2	15.8	18	14.2
SPIF150-100-330M-A	33.0±20%	16.7	20	16.7	12.3

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 150
- * Box : 450

SPIF150-130-SERIES-A



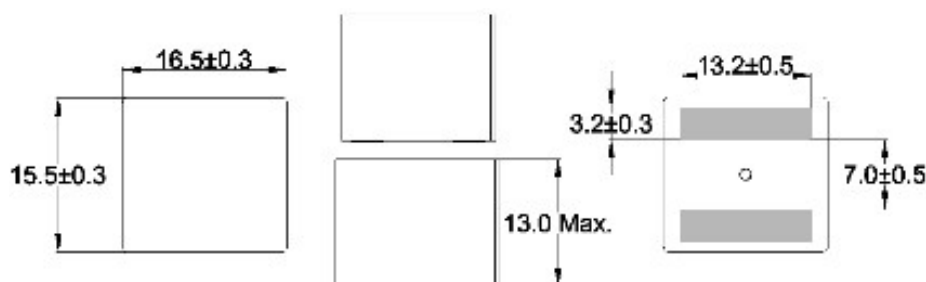
Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

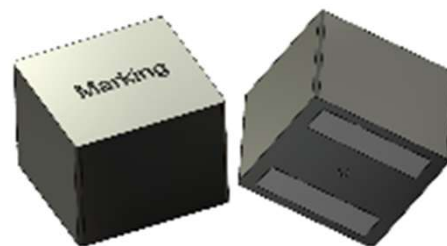
Environmental data

- Operating temperature range : -55°C ~ +155°C(component)
- Storage conditions (packaged) : -25°C ~ +40°C, ≤75% RH
- Complies with AEC-Q200 standard

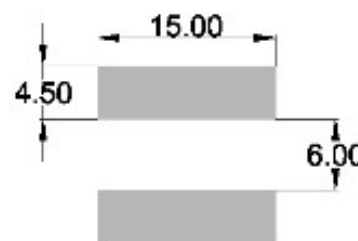
Dimensions [Unit : mm]



Picture



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(uH) 100kHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)	Heating Rating Current DC(A) b)
		TYP.	MAX.	TYP.	TYP.
SPIF150-130-4R7M-A	4.7±20%	2.7	3.3	44	31
SPIF150-130-5R6M-A	5.6±20%	3.2	3.9	40	29
SPIF150-130-6R8M-A	6.8±20%	3.5	4.2	37	27
SPIF150-130-8R2M-A	8.2±20%	4.7	5.7	33	26
SPIF150-130-100M-A	10.0±20%	5.8	7	30	25
SPIF150-130-150M-A	15.0±20%	6.2	7.5	25.5	22
SPIF150-130-220M-A	22.0±20%	11.5	13.8	22	17
SPIF150-130-330M-A	33.0±20%	18.5	22.2	19	14

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 100
- * Box : 300

MMPI160808-SERIES-A



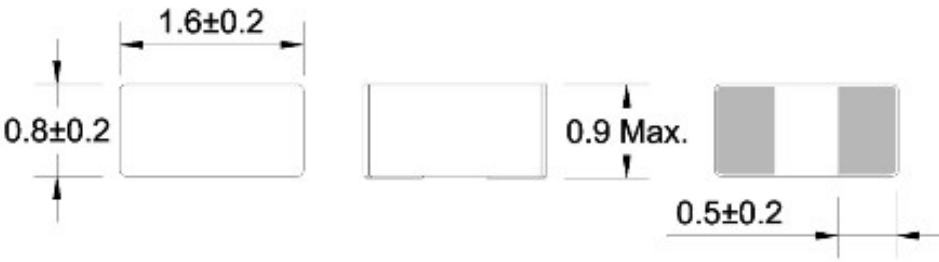
Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

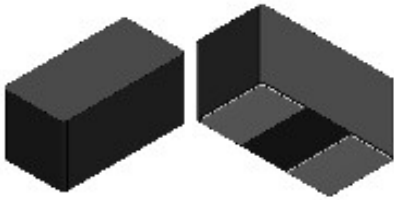
Environmental data

- Operating temperature range : -40°C ~ +125°C(component)
- Storage conditions (packaged) : -25°C ~ +40°C, ≤75% RH
- Complies with AEC-Q200 standard

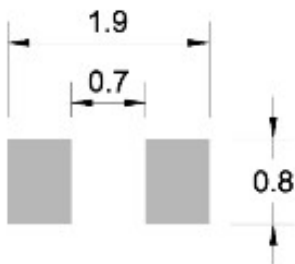
Dimensions [Unit : mm]



Picture



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(uH) 1MHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)		Heating Rating Current DC(A) b)	
		TYP.	MAX.	TYP.	MAX.	TYP.	MAX.
MMPI160808-R47M-A	0.47±20%	56	70	3.5	2.9	2.1	1.9
MMPI160808-1R0M-A	1.0±20%	115	140	2.3	2	1.6	1.3
MMPI160808-2R2M-A	2.2±20%	250	300	1.4	1.2	1	0.9

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

* Reel : 3,000



MMPI201208-SERIES-A



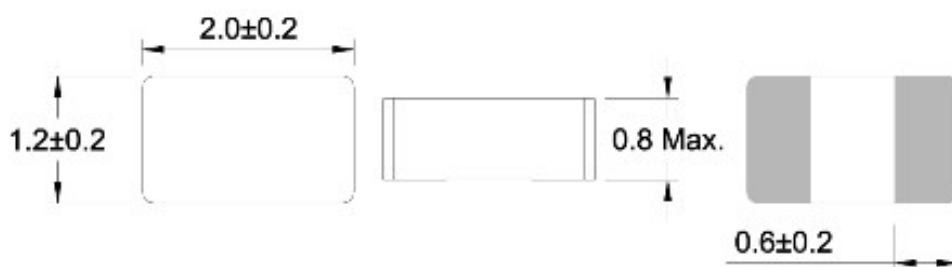
Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

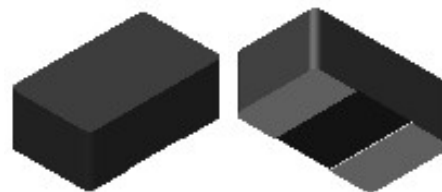
Environmental data

- Operating temperature range : -40°C ~ +125°C(component)
- Storage conditions (packaged) : -25°C ~ +40°C, ≤75% RH
- Complies with AEC-Q200 standard

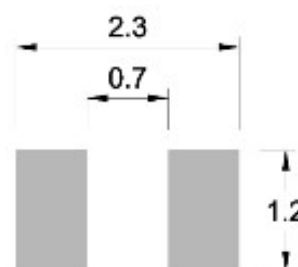
Dimensions [Unit : mm]



Picture



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(uH) 1MHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)		Heating Rating Current DC(A) b)	
		TYP.	MAX.	TYP.	MAX.	TYP.	MAX.
MMPI201208-R24M-A	0.24±20%	20	26	6	5.5	4.8	4.5
MMPI201208-R47M-A	0.47±20%	37	42	4.8	4.5	3.8	3.6
MMPI201208-1R0M-A	1.0±20%	60	79.2	3.2	2.8	2.5	2.3
MMPI201208-1R5M-A	1.5±20%	103	130	2.8	2.4	2.2	1.9
MMPI201208-2R2M-A	2.2±20%	180	220	2.5	2.2	1.8	1.4

Notes

* All test data is referenced to 25 °C ambient

a) DC current (A) that will cause L0 to drop approximately 30 %

b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

* Reel : 3,000

MMPI201210-SERIES-A



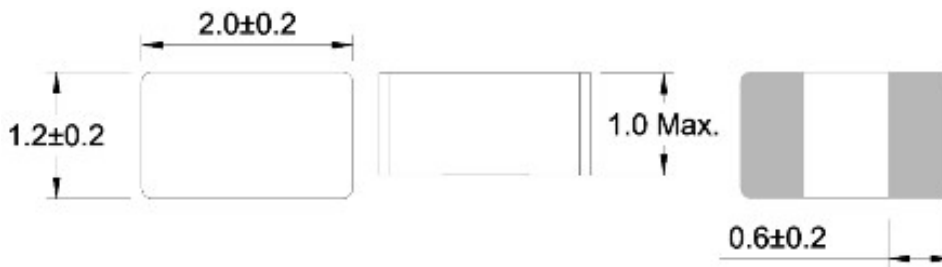
Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

Environmental data

- Operating temperature range : -40°C ~ +125°C(component)
- Storage conditions (packaged) : -25°C ~ +40°C, ≤75% RH
- Complies with AEC-Q200 standard

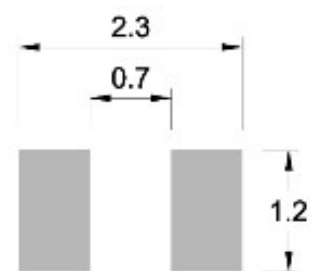
Dimensions [Unit : mm]



Picture



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(uH) 1MHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)		Heating Rating Current DC(A) b)	
		TYP.	MAX.	TYP.	MAX.	TYP.	MAX.
MMPI201210-R24M-A	0.24±20%	14.5	18	6.6	5.9	6.2	5.5
MMPI201210-R33M-A	0.33±20%	22.5	29	5.8	5	5	4.6
MMPI201210-R47M-A	0.47±20%	27	32	5	4.5	4.3	4
MMPI201210-R68M-A	0.68±20%	38	46	4.3	3.6	3.5	3
MMPI201210-1R0M-A	1.00±20%	46	56	3.8	3.4	3.3	2.9
MMPI201210-1R5M-A	1.50±20%	73	85	2.6	2.3	2.5	2.2
MMPI201210-2R2M-A	2.20±20%	140	166	2.2	2	1.7	1.5
MMPI201210-3R3M-A	3.30±20%	230	280	1.9	1.6	1.4	1

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

* Reel : 3,000

MMPI201608-SERIES-A



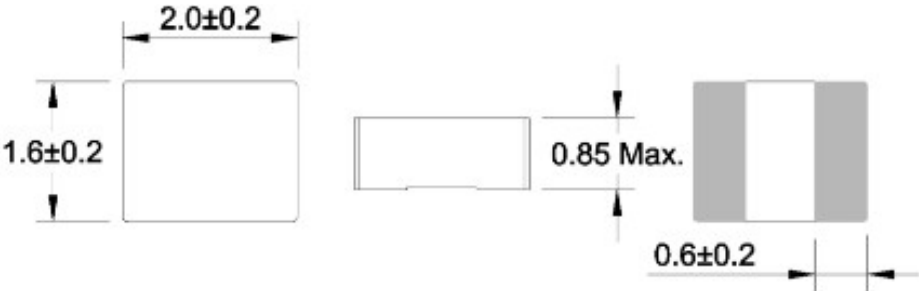
Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

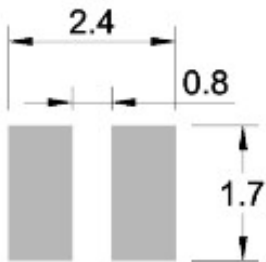
Environmental data

- Operating temperature range : -40℃ ~ +125℃(component)
- Storage conditions (packaged) : -25℃ ~ +40℃, ≤75% RH
- Complies with AEC-Q200 standard

Dimensions [Unit : mm]



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(uH) 1MHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)		Heating Rating Current DC(A) b)	
		TYP.	MAX.	TYP.	MAX.	TYP.	MAX.
MMPI201608-1R0M-A	1.0±20%	65	78	3.8	3.4	3	2.8
MMPI201608-2R2M-A	2.2±20%	145	180	2.2	1.8	1.6	1.2

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

* Reel : 3,000

MMPI201610-SERIES-A



Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

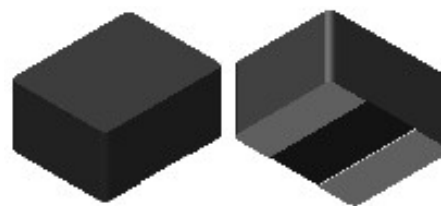
Environmental data

- Operating temperature range : -40°C ~ +125°C(component)
- Storage conditions (packaged) : -25°C ~ +40°C, ≤75% RH
- Complies with AEC-Q200 standard

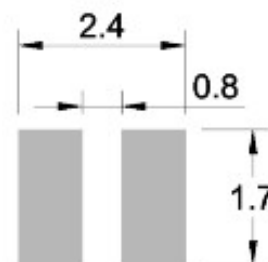
Dimensions [Unit : mm]



Picture



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(uH) 1MHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)		Heating Rating Current DC(A) b)	
		TYP.	MAX.	TYP.	MAX.	TYP.	MAX.
MMPI201610-R24M-A	0.24±20%	14.5	20	7.6	6.8	5.4	4.8
MMPI201610-R33M-A	0.33±20%	18.5	23	6.8	6	5	4.6
MMPI201610-R47M-A	0.47±20%	21	28	5.6	5.2	4.8	4.4
MMPI201610-1R0M-A	1.0±20%	42	48	4.6	4	3.8	3.2
MMPI201610-2R2M-A	2.2±20%	116	140	3.5	2.9	2.3	2
MMPI201610-4R7M-A	4.7±20%	215	240	1.9	1.6	1.5	1.3

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 3,000



MMPI201612-SERIES-A



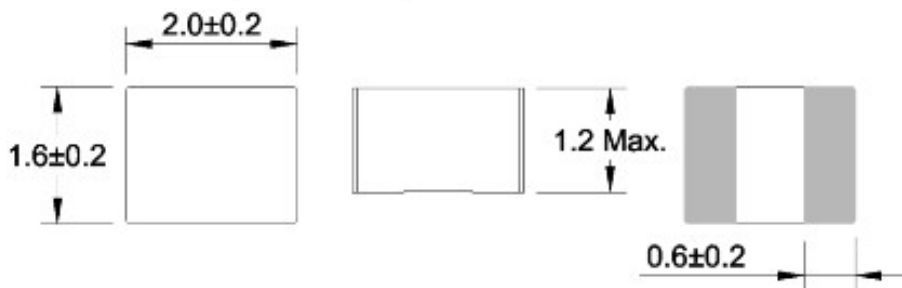
Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

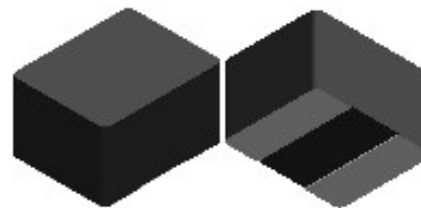
Environmental data

- Operating temperature range : -40°C ~ +125°C(component)
- Storage conditions (packaged) : -25°C ~ +40°C, ≤75% RH
- Complies with AEC-Q200 standard

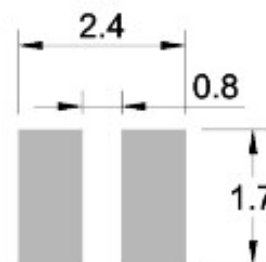
Dimensions [Unit : mm]



Picture



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(uH) 1MHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)		Heating Rating Current DC(A) b)	
		TYP.	MAX.	TYP.	MAX.	TYP.	MAX.
MMPI201612-R33M-A	0.33±20%	14	18	8.2	7.8	5.6	5
MMPI201612-R47M-A	0.47±20%	20	25	6.1	5.6	5	4.4

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 3,000

MMPI252010-SERIES-A



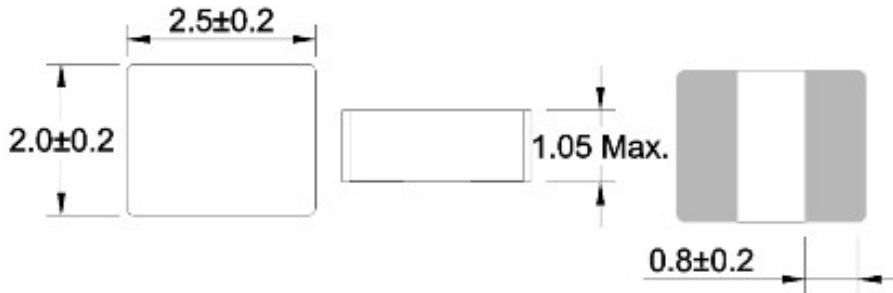
Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

Environmental data

- Operating temperature range : -40°C ~ +125°C(component)
- Storage conditions (packaged) : -25°C ~ +40°C, ≤75% RH
- Complies with AEC-Q200 standard

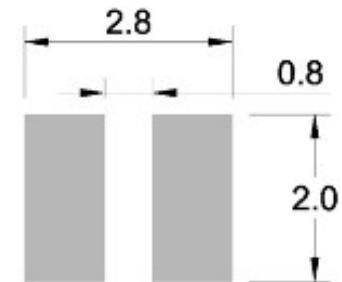
Dimensions [Unit : mm]



Picture



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(uH) 1MHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)		Heating Rating Current DC(A) b)	
		TYP.	MAX.	TYP.	MAX.	TYP.	MAX.
MMPI252010-R24M-A	0.24±20%	13	16	10.5	8.5	5.8	5
MMPI252010-R33M-A	0.33±20%	16.5	22	9.5	7.8	4.95	4.5
MMPI252010-R47M-A	0.47±20%	19	22	6.1	5.6	4.8	4.3
MMPI252010-R68M-A	0.68±20%	26	33	5.5	5	4.2	3.8
MMPI252010-1R0M-A	1.0±20%	38	43	5	4.5	3.7	3.4
MMPI252010-1R5M-A	1.5±20%	51	61	3.6	3.4	3.6	3.2
MMPI252010-2R2M-A	2.2±20%	83	96	3.3	3	2.3	2.1
MMPI252010-3R3M-A	3.3±20%	100	125	2.9	2.6	2	1.8
MMPI252010-4R7M-A	4.7±20%	204	225	2.1	1.8	1.6	1.45

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

* Reel : 3,000

MMPI252012-SERIES-A



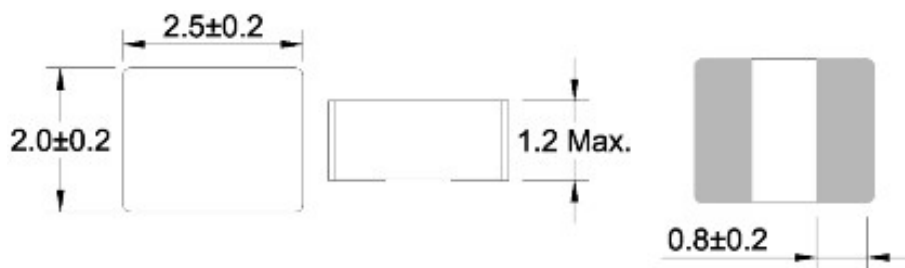
Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

Environmental data

- Operating temperature range : -40°C ~ +125°C(component)
- Storage conditions (packaged) : -25°C ~ +40°C, ≤75% RH
- Complies with AEC-Q200 standard

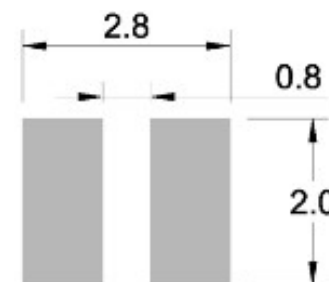
Dimensions [Unit : mm]



Picture



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(uH) 1MHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)		Heating Rating Current DC(A) b)	
		TYP.	MAX.	TYP.	MAX.	TYP.	MAX.
MMPI252012-R47M-A	0.47±20%	14	17	6.4	5.9	5.4	4.9
MMPI252012-R68M-A	0.68±20%	17	22	6.2	5.6	5.4	4.7
MMPI252012-1R0M-A	1.0±20%	24	30	5.5	4.9	4.8	4.3
MMPI252012-1R5M-A	1.5±20%	40	52	4.5	4.1	3.6	3.2
MMPI252012-2R2M-A	2.2±20%	55	66	3.8	3.3	2.5	2.2
MMPI252012-4R7M-A	4.7±20%	160	190	2.6	2.2	2	1.7

Notes

* All test data is referenced to 25 °C ambient

a) DC current (A) that will cause L0 to drop approximately 30 %

b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

* Reel : 3,000

MMPI322512-SERIES-A



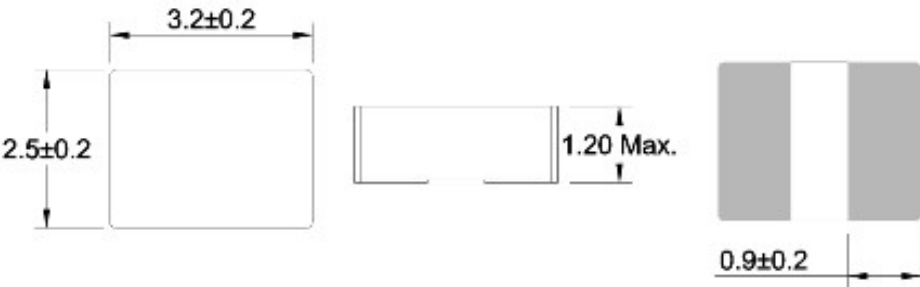
Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

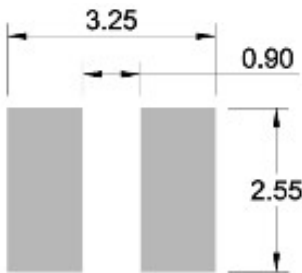
Environmental data

- Operating temperature range : -40°C ~ +125°C(component)
- Storage conditions (packaged) : -25°C ~ +40°C, ≤75% RH
- Complies with AEC-Q200 standard

Dimensions [Unit : mm]



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(uH) 1MHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)		Heating Rating Current DC(A) b)	
		TYP.	MAX.	TYP.	MAX.	TYP.	MAX.
MMPI322512-R68M-A	0.68±20%	18	24	7.8	7	7	6
MMPI322512-1R0M-A	1.0±20%	23	30	6.6	5.8	5.3	4.8
MMPI322512-2R2M-A	2.2±20%	58	70	4.6	4	3.6	3
MMPI322512-3R3M-A	3.3±20%	75	95	3.7	3.2	2.9	2.5
MMPI322512-4R7M-A	4.7±20%	115	135	2.9	2.6	2.3	2

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

* Reel : 3,000

MMPI4012-SERIES-A



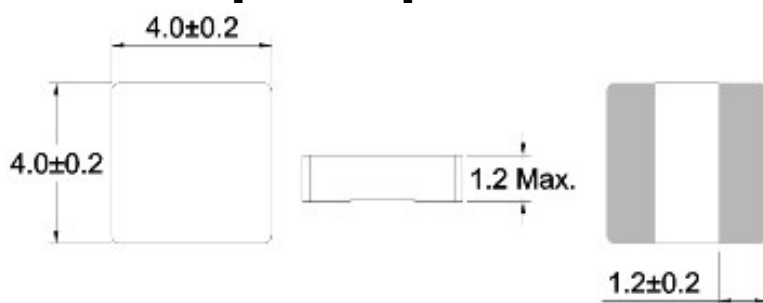
Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

Environmental data

- Operating temperature range : -40°C ~ +125°C(component)
- Storage conditions (packaged) : -25°C ~ +40°C, ≤75% RH
- Complies with AEC-Q200 standard

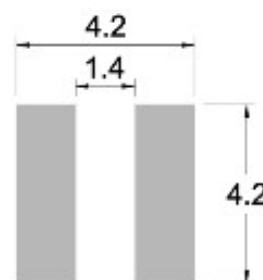
Dimensions [Unit : mm]



Picture



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(uH) 1MHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)		Heating Rating Current DC(A) b)	
		TYP.	MAX.	TYP.	MAX.	TYP.	MAX.
MMPI4012-1R0M-A	1.0±20%	25	32	7	6.2	5	4.3
MMPI4012-2R2M-A	2.2±20%	48	58	4.8	4.3	3.6	3.2
MMPI4012-3R3M-A	3.3±20%	56	67	4.5	4.1	3.2	2.8
MMPI4012-4R7M-A	4.7±20%	86	100	3.5	3	2.7	2.4
MMPI4012-6R8M-A	6.8±20%	120	150	3.5	3	2.2	1.9

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 4,000

PNL201210M-SERIES-A



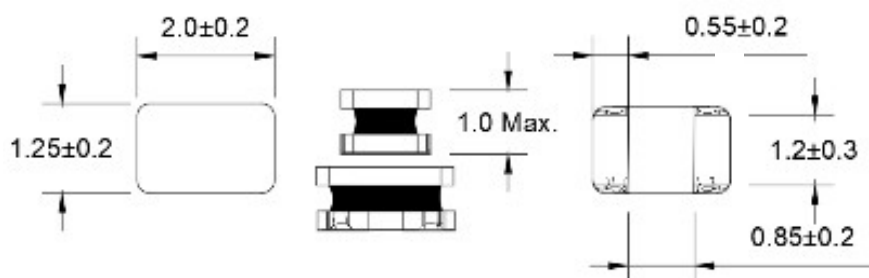
Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

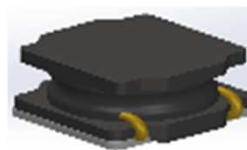
Environmental data

- Operating temperature range : -50℃ ~ +125℃(component)
- Storage conditions (packaged) : -25℃ ~ +40℃, ≤75% RH
- Complies with AEC-Q200 standard

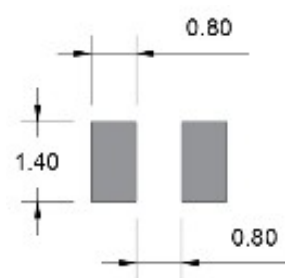
Dimensions [Unit : mm]



Picture



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(uH) 100kHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)	Heating Rating Current DC(A) b)
		TYP.	MAX.	MAX.	MAX.
PNL201210M-R33M-A	0.33±20%	26	33	4	3.6
PNL201210M-R47M-A	0.47±20%	34	45	3.5	3.1
PNL201210M-R68M-A	0.68±20%	62	76	3.3	2
PNL201210M-1R0M-A	1.0±20%	92	110	3	1.6
PNL201210M-2R2M-A	2.2±20%	305	366	2	1
PNL201210M-4R7M-A	4.7±20%	465	558	1.4	0.7

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 2,000
- * Box : 100,000

PNL201610-SERIES-A



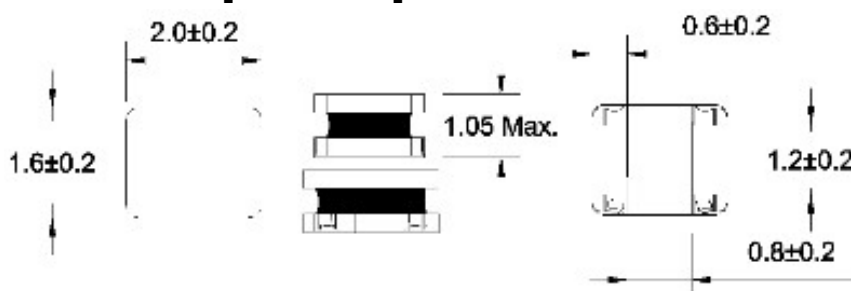
Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

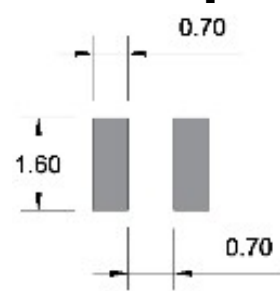
Environmental data

- Operating temperature range : -50°C ~ +125°C(component)
- Storage conditions (packaged) : -25°C ~ +40°C, ≤75% RH
- Complies with AEC-Q200 standard

Dimensions [Unit : mm]



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(uH) 1MHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)	Heating Rating Current DC(A) b)
		TYP.	MAX.	MAX.	MAX.
PNL201610-R24M-A	0.24±20%	33	40	3.7	2.8
PNL201610-R33M-A	0.33±20%	41	48	3	2.4
PNL201610-R47M-A	0.47±20%	50	60	2.3	2.3
PNL201610-R56M-A	0.56±20%	53	68	2.2	2
PNL201610-R68M-A	0.68±20%	63	76	1.95	2
PNL201610-1R0M-A	1.0±20%	96	114	1.65	1.45
PNL201610-1R5M-A	1.5±20%	145	174	1.45	1.1
PNL201610-2R2M-A	2.2±20%	215	265	1.2	1.05
PNL201610-3R3M-A	3.3±20%	290	345	1	0.85
PNL201610-4R7M-A	4.7±20%	400	480	0.75	0.7
PNL201610-5R6M-A	5.6±20%	560	672	0.73	0.6
PNL201610-6R8M-A	6.8±20%	610	800	0.7	0.55
PNL201610-8R2M-A	8.2±20%	730	940	0.68	0.53
PNL201610-100M-A	10.0±20%	800	1,000	0.65	0.5
PNL201610-120M-A	12.0±20%	1,100	1,430	0.62	0.36
PNL201610-150M-A	15.0±20%	1,300	1,700	0.5	0.3
PNL201610-220M-A	22.0±20%	1,400	1,700	0.32	0.3

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 2,000
- * Box : 100,000

PNL201610M-SERIES-A



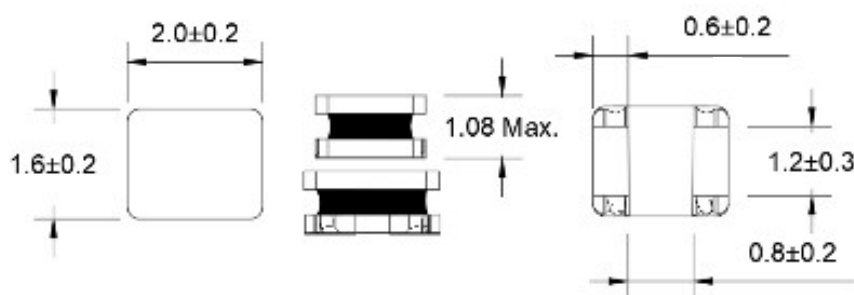
Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

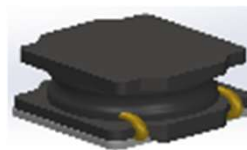
Environmental data

- Operating temperature range : -50°C ~ +125°C(component)
- Storage conditions (packaged) : -25°C ~ +40°C, ≤75% RH
- Complies with AEC-Q200 standard

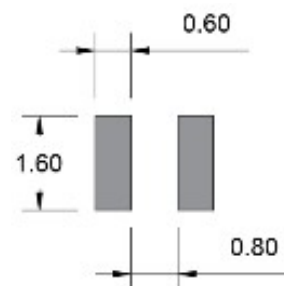
Dimensions [Unit : mm]



Picture



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(uH) 100kHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)	Heating Rating Current DC(A) b)
		TYP.	MAX.	MAX.	MAX.
PNL201610M-R24M-A	0.24±20%	33	40	4.5	3
PNL201610M-R33M-A	0.33±20%	41	49	4.4	2.7
PNL201610M-R47M-A	0.47±20%	41	49	4.06	2.7
PNL201610M-R56M-A	0.56±20%	43	53	3.8	2.6
PNL201610M-R68M-A	0.68±20%	57	65	3.5	2.5
PNL201610M-1R0M-A	1.0±20%	78	95	3.3	2
PNL201610M-1R5M-A	1.5±20%	110	130	1.95	1.7
PNL201610M-2R2M-A	2.2±20%	160	180	1.9	1.4
PNL201610M-3R3M-A	3.3±20%	245	307	1.4	1.1
PNL201610M-4R7M-A	4.7±20%	370	425	1.1	0.9
PNL201610M-6R8M-A	6.8±20%	500	620	0.95	0.7
PNL201610M-8R2M-A	8.2±20%	670	870	0.86	0.66
PNL201610M-100M-A	10.0±20%	700	875	0.8	0.6
PNL201610M-150M-A	15.0±20%	1,300	1,700	0.69	0.36

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 2,000
- * Box : 100,000

PNL252010-SERIES-A



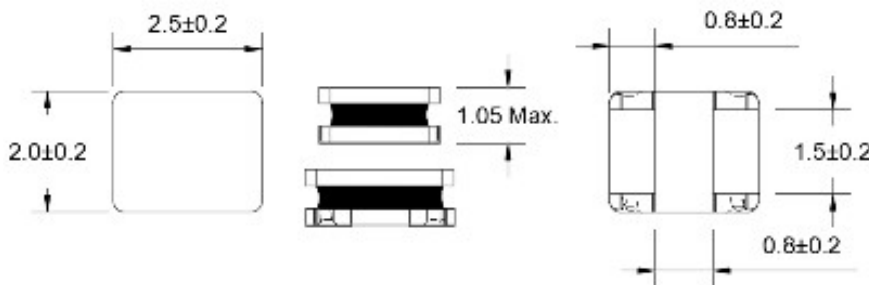
Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

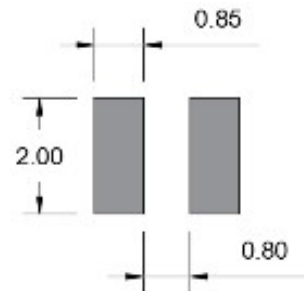
Environmental data

- Operating temperature range : -50℃ ~ +125℃(component)
- Storage conditions (packaged) : -25℃ ~ +40℃, ≤75% RH
- Complies with AEC-Q200 standard

Dimensions [Unit : mm]



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(uH) 1MHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)	Heating Rating Current DC(A) b)
		TYP.	MAX.	MAX.	MAX.
PNL252010-R22M-A	0.22±20%	26	34	3.6	2.75
PNL252010-R24M-A	0.24±20%	26	34	3.6	2.75
PNL252010-R33M-A	0.33±20%	33	43	3.6	2.45
PNL252010-R47M-A	0.47±20%	33	44	2.8	2.4
PNL252010-R68M-A	0.68±20%	51	62	2.75	2.1
PNL252010-1R0M-A	1.0±20%	66	80	2.05	1.85
PNL252010-1R5M-A	1.5±20%	85	108	1.7	1.55
PNL252010-2R2M-A	2.2±20%	130	150	1.5	1.35
PNL252010-3R3M-A	3.3±20%	170	228	1.1	1.05
PNL252010-4R7M-A	4.7±20%	280	330	1	0.9
PNL252010-5R6M-A	5.6±20%	370	480	0.9	0.8
PNL252010-6R8M-A	6.8±20%	400	480	0.8	0.72
PNL252010-8R2M-A	8.2±20%	463	572	0.73	0.69
PNL252010-100M-A	10.0±20%	500	600	0.65	0.67
PNL252010-120M-A	12.0±20%	700	850	0.58	0.58
PNL252010-150M-A	15.0±20%	820	1,050	0.5	0.45
PNL252010-220M-A	22.0±20%	1,320	1,710	0.4	0.4

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 2,000
- * Box : 100,000

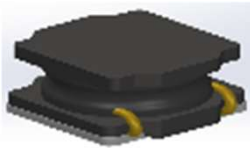
PNL252010M-SERIES-A



Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

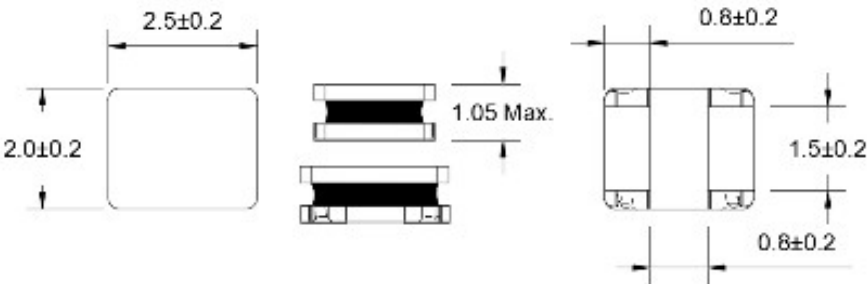
Picture



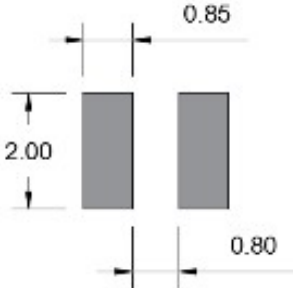
Environmental data

- Operating temperature range : -50℃ ~ +125℃(component)
- Storage conditions (packaged) : -25℃ ~ +40℃, ≤75% RH
- Complies with AEC-Q200 standard

Dimensions [Unit : mm]



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(uH) 100kHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)	Heating Rating Current DC(A) b)
		TYP.	MAX.	MAX.	MAX.
PNL252010M-R24M-A	0.24±20%	25	33	6.1	3.7
PNL252010M-R33M-A	0.33±20%	33	39	4.8	3.5
PNL252010M-R47M-A	0.47±20%	40	45	4.4	3.2
PNL252010M-R68M-A	0.68±20%	49	59	3.2	2.75
PNL252010M-1R0M-A	1.0±20%	71	85	3.1	2.2
PNL252010M-1R5M-A	1.5±20%	90	106	2.6	2
PNL252010M-2R2M-A	2.2±20%	129	155	1.9	1.5
PNL252010M-3R3M-A	3.3±20%	196	235	1.6	1.2
PNL252010M-4R7M-A	4.7±20%	255	290	1.3	1
PNL252010M-6R8M-A	6.8±20%	380	480	1	0.95
PNL252010M-100M-A	10.0±20%	630	740	0.9	0.65

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 2,000
- * Box : 100,000

PNL252012-SERIES-A



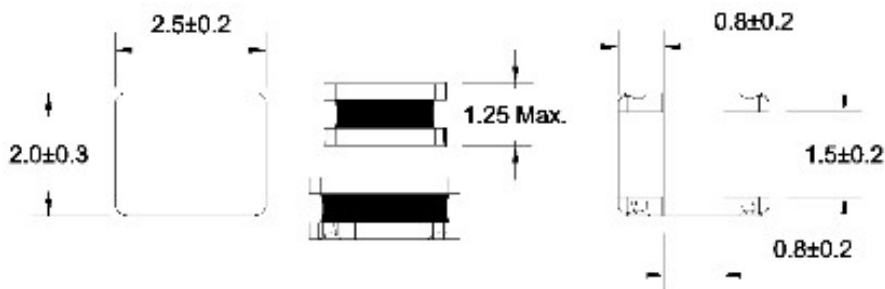
Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

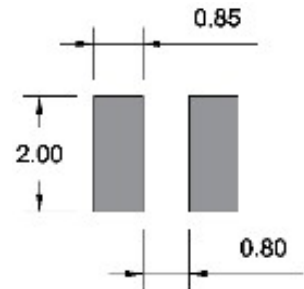
Environmental data

- Operating temperature range : -50°C ~ +125°C(component)
- Storage conditions (packaged) : -25°C ~ +40°C, ≤75% RH
- Complies with AEC-Q200 standard

Dimensions [Unit : mm]



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(uH) 1MHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)	Heating Rating Current DC(A) b)
		TYP.	MAX.	MAX.	MAX.
PNL252012-R24M-A	0.24±20%	19	23	4.1	4.1
PNL252012-R33M-A	0.33±20%	26	31	4	3.35
PNL252012-R47M-A	0.47±20%	31	36	3.8	3
PNL252012-R56M-A	0.56±20%	38	47	3.6	2.3
PNL252012-R68M-A	0.68±20%	38	47	3	2.3
PNL252012-1R0M-A	1.0±20%	50	60	2.25	2.3
PNL252012-1R2M-A	1.2±20%	65	78	2.2	2
PNL252012-1R5M-A	1.5±20%	75	90	2	1.8
PNL252012-1R8M-A	1.8±20%	93	108	1.95	1.75
PNL252012-2R2M-A	2.2±20%	93	108	1.75	1.75
PNL252012-2R7M-A	2.7±20%	130	156	1.3	1.4
PNL252012-3R3M-A	3.3±20%	130	156	1.2	1.4
PNL252012-4R7M-A	4.7±20%	190	228	1.1	1.1
PNL252012-5R6M-A	5.6±20%	255	330	1	1
PNL252012-6R8M-A	6.8±20%	300	360	0.9	0.95
PNL252012-100M-A	10.0±20%	435	522	0.7	0.78
PNL252012-120M-A	12.0±20%	600	750	0.65	0.65
PNL252012-150M-A	15.0±20%	700	1,000	0.6	0.5
PNL252012-220M-A	22.0±20%	1,000	1,290	0.45	0.48

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 2,000
- * Box : 100,000

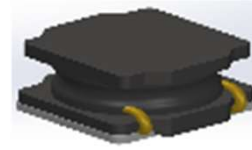
PNL252012M-SERIES-A



Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

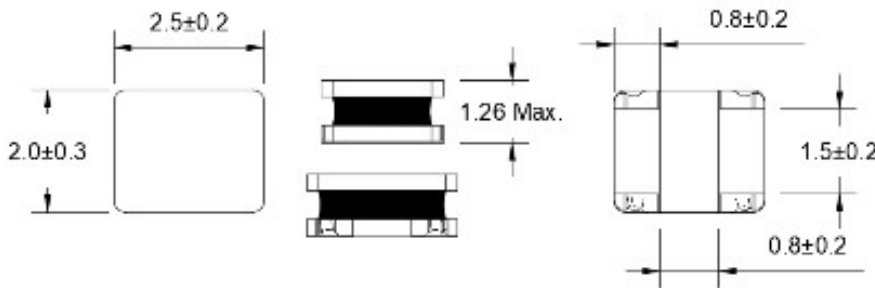
Picture



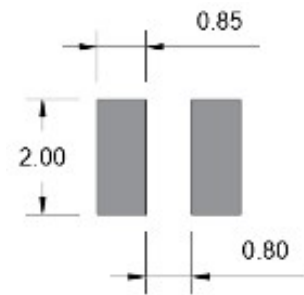
Environmental data

- Operating temperature range : -50°C ~ +125°C(component)
- Storage conditions (packaged) : -25°C ~ +40°C, ≤75% RH
- Complies with AEC-Q200 standard

Dimensions [Unit : mm]



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(uH) 100kHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)	Heating Rating Current DC(A) b)
		TYP.	MAX.	MAX.	MAX.
PNL252012M-R24M-A	0.24±20%	19	23	6.5	4.05
PNL252012M-R33M-A	0.33±20%	23	28	5.35	3.7
PNL252012M-R47M-A	0.47±20%	29	35	4.9	3.45
PNL252012M-R68M-A	0.68±20%	39	45	3.8	3.15
PNL252012M-1R0M-A	1.0±20%	48	54	3.6	3
PNL252012M-1R5M-A	1.5±20%	60	78	2.9	2.4
PNL252012M-1R8M-A	1.8±20%	78	96	2.7	2.1
PNL252012M-2R2M-A	2.2±20%	100	120	2.6	1.9
PNL252012M-3R3M-A	3.3±20%	175	215	1.7	1.5
PNL252012M-4R7M-A	4.7±20%	225	260	1.6	1.25
PNL252012M-6R8M-A	6.8±20%	305	366	1.2	0.95
PNL252012M-8R2M-A	8.2±20%	396	460	1.15	0.88
PNL252012M-100M-A	10.0±20%	435	480	1.1	0.85

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 2,000
- * Box : 100,000

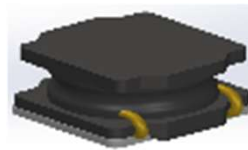
PNL3010-SERIES-A



Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

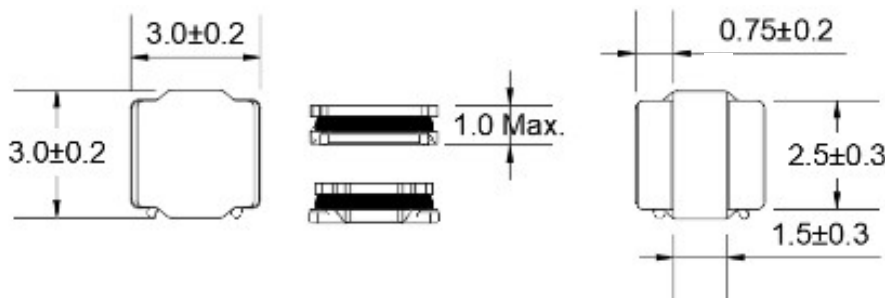
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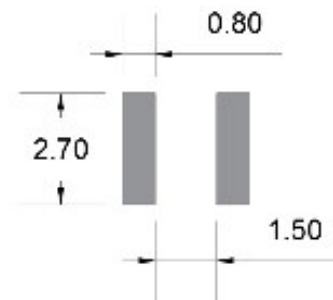
Environmental data

- Operating temperature range : -50°C ~ +125°C(component)
- Storage conditions (packaged) : -25°C ~ +40°C, ≤75% RH
- Complies with AEC-Q200 standard

Dimensions [Unit : mm]



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(uH) 100kHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)	Heating Rating Current DC(A) b)
		TYP.	MAX.		
PNL3010-1R0N-A	1.0±30%	65	85	1.4	1.45
PNL3010-1R5N-A	1.5±30%	80	104	1.27	1.3
PNL3010-2R2M-A	2.2±20%	110	143	1.15	1.09
PNL3010-3R3M-A	3.3±20%	145	189	0.97	0.96
PNL3010-4R7M-A	4.7±20%	225	293	0.75	0.77
PNL3010-6R8M-A	6.8±20%	305	397	0.65	0.66
PNL3010-100M-A	10.0±20%	400	520	0.6	0.58
PNL3010-150M-A	15.0±20%	610	793	0.42	0.47
PNL3010-220M-A	22.0±20%	930	1,209	0.35	0.38

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 2,000
- * Box : 100,000

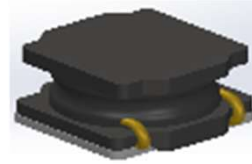
PNL3012-SERIES-A



Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

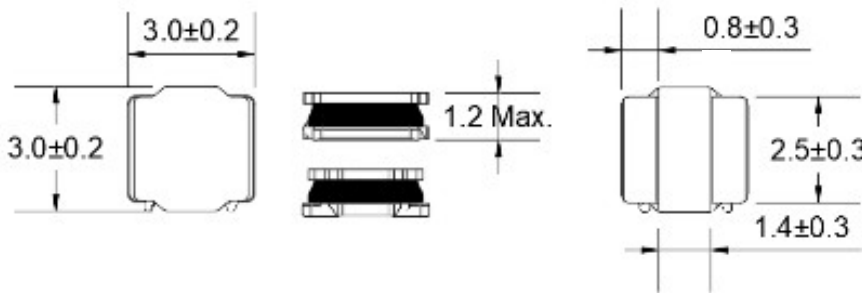
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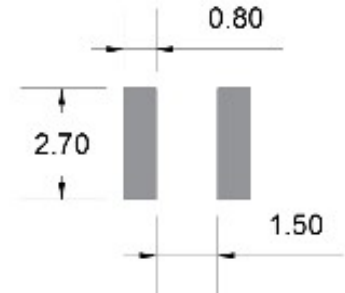
Environmental data

- Operating temperature range : -50°C ~ +125°C(component)
- Storage conditions (packaged) : -25°C ~ +40°C, ≤75% RH
- Complies with AEC-Q200 standard

Dimensions [Unit : mm]



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(uH) 100kHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)	Heating Rating Current DC(A) b)
		TYP.	MAX.	MAX.	MAX.
PNL3012-R33N-A	0.33±30%	21	27	3	2.9
PNL3012-R47N-A	0.47±30%	33	43	2.2	2.2
PNL3012-R82N-A	0.82±30%	40	52	2.05	2.1
PNL3012-1R0N-A	1.0±30%	48	62	1.9	2
PNL3012-1R5N-A	1.5±30%	55	72	1.62	1.85
PNL3012-1R8N-A	1.8±30%	68	88	1.5	1.7
PNL3012-2R2M-A	2.2±20%	75	98	1.2	1.55
PNL3012-3R3M-A	3.3±20%	100	130	1.05	1.35
PNL3012-4R7M-A	4.7±20%	120	156	0.9	1.25
PNL3012-5R6M-A	5.6±20%	160	208	0.8	1.1
PNL3012-6R8M-A	6.8±20%	190	247	0.75	1
PNL3012-100M-A	10.0±20%	265	345	0.6	0.89
PNL3012-150M-A	15.0±20%	430	559	0.45	0.72
PNL3012-220M-A	22.0±20%	630	819	0.42	0.55
PNL3012-270M-A	27.0±20%	800	1,040	0.36	0.46
PNL3012-330M-A	33.0±20%	875	1,138	0.35	0.45
PNL3012-470M-A	47.0±20%	1,450	1,885	0.27	0.35

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 2,000
- * Box : 100,000

PNL3012M-SERIES-A



Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

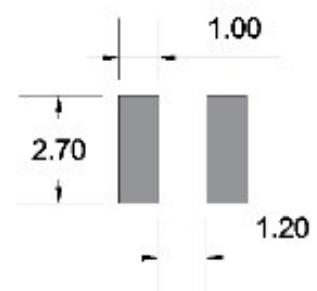
Environmental data

- Operating temperature range : -50℃ ~ +125℃(component)
- Storage conditions (packaged) : -25℃ ~ +40℃, ≤75% RH
- Complies with AEC-Q200 standard

Dimensions [Unit : mm]



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(uH) 1MHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)	Heating Rating Current DC(A) b)
		TYP.	MAX.	MAX.	MAX.
PNL3012M-R22M-A	0.22±20%	20	26	9.3	4.2
PNL3012M-R33M-A	0.33±20%	24	32	7.2	4.1
PNL3012M-R47M-A	0.47±20%	31	40	6.8	3.8
PNL3012M-R68M-A	0.68±20%	38	46	5.8	3.1
PNL3012M-1R0M-A	1.0±20%	46	54	4.2	2.7
PNL3012M-1R5M-A	1.5±20%	62	74	3.4	2.5
PNL3012M-2R2M-A	2.2±20%	90	108	2.8	2.05
PNL3012M-3R3M-A	3.3±20%	144	185	2.2	1.5
PNL3012M-4R7M-A	4.7±20%	215	255	2	1.15
PNL3012M-6R8M-A	6.8±20%	290	340	1.6	1.1
PNL3012M-100M-A	10.0±20%	395	474	1.2	1
PNL3012M-150M-A	15.0±20%	610	740	1.1	0.53
PNL3012M-220M-A	22.0±20%	960	1,200	0.96	0.4

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 2,000
- * Box : 100,000

PNL3015-SERIES-A



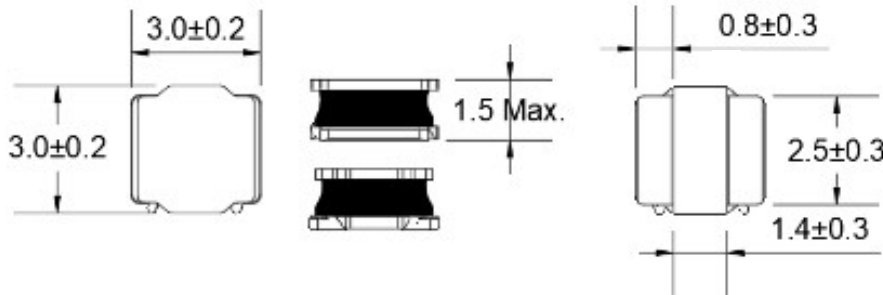
Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

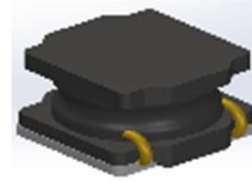
Environmental data

- Operating temperature range : -50°C ~ +125°C(component)
- Storage conditions (packaged) : -25°C ~ +40°C, ≤75% RH
- Complies with AEC-Q200 standard

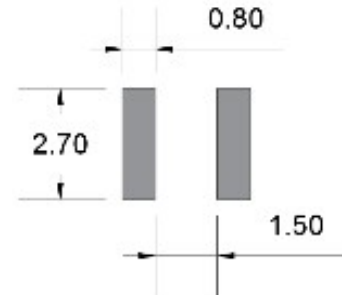
Dimensions [Unit : mm]



Picture



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(uH) 100kHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)	Heating Rating Current DC(A) b)
		TYP.	MAX.		
PNL3015-R24N-A	0.24±30%	14	18	4.8	3.5
PNL3015-R30N-A	0.30±30%	15	20	4.6	3.5
PNL3015-R47N-A	0.47±30%	20	26	4	3.5
PNL3015-1R0N-A	1.0±30%	30	39	2.32	2.1
PNL3015-1R5N-A	1.5±30%	50	65	2	1.7
PNL3015-1R8N-A	1.8±30%	55	72	1.75	1.65
PNL3015-2R2M-A	2.2±20%	60	78	1.6	1.6
PNL3015-3R3M-A	3.3±20%	80	104	1.32	1.36
PNL3015-3R9M-A	3.9±20%	108	140	1.2	1.1
PNL3015-4R7M-A	4.7±20%	125	163	1.1	1.09
PNL3015-5R6M-A	5.6±20%	170	221	1.05	1
PNL3015-6R8M-A	6.8±20%	200	260	0.85	0.85
PNL3015-8R2M-A	8.2±20%	230	299	0.8	0.77
PNL3015-100M-A	10.0±20%	250	325	0.72	0.75
PNL3015-120M-A	12.0±20%	288	374	0.7	0.68
PNL3015-150M-A	15.0±20%	350	455	0.66	0.65
PNL3015-180M-A	18.0±20%	430	559	0.56	0.59
PNL3015-220M-A	22.0±20%	460	598	0.52	0.57
PNL3015-270M-A	27.0±20%	630	819	0.48	0.46
PNL3015-330M-A	33.0±20%	780	1,014	0.44	0.42
PNL3015-470M-A	47.0±20%	1,200	1,560	0.35	0.32

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 2,000
- * Box : 100,000

PNL3015M-SERIES-A



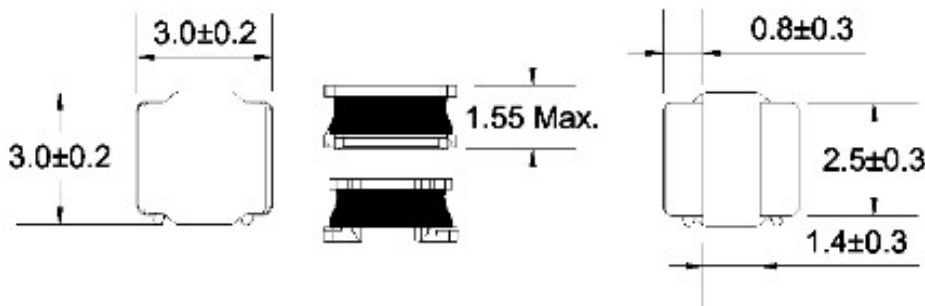
Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

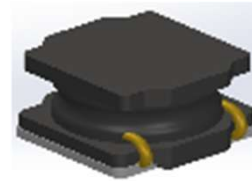
Environmental data

- Operating temperature range : -50°C ~ +125°C(component)
- Storage conditions (packaged) : -25°C ~ +40°C, ≤75% RH
- Complies with AEC-Q200 standard

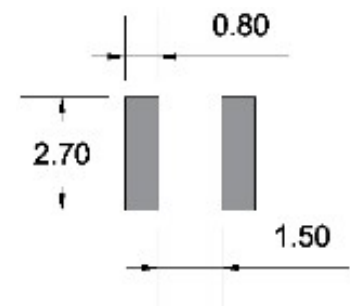
Dimensions [Unit : mm]



Picture



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(uH) 1MHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)	Heating Rating Current DC(A) b)
		TYP.	MAX.		
PNL3015M-R22M-A	0.22±20%	15.4	19	8.8	5
PNL3015M-R24M-A	0.24±20%	15.4	19	8.6	5
PNL3015M-R33M-A	0.33±20%	16	21	8	4.9
PNL3015M-R47M-A	0.47±20%	20	26	7.6	4.6
PNL3015M-R68M-A	0.68±20%	28	36.5	7	3.8
PNL3015M-1R0M-A	1.0±20%	37	48	5.8	3.3
PNL3015M-1R5M-A	1.5±20%	55	72	4.6	2.2
PNL3015M-2R2M-A	2.2±20%	74	95	3.7	2.2
PNL3015M-3R3M-A	3.3±20%	110	150	3.4	2
PNL3015M-3R9M-A	3.9±20%	138	170	2.8	1.8
PNL3015M-4R7M-A	4.7±20%	150	185	2.5	1.7
PNL3015M-5R6M-A	5.6±20%	190	250	2.2	1.5
PNL3015M-6R8M-A	6.8±20%	245	320	2	1.2
PNL3015M-100M-A	10.0±20%	350	450	1.6	1.1
PNL3015M-150M-A	15.0±20%	460	610	1.45	1.1
PNL3015M-220M-A	22.0±20%	700	910	1	0.56
PNL3015M-330M-A	33.0±20%	970	1,260	0.9	0.5
PNL3015M-470M-A	47.0±20%	1,450	1,900	0.8	0.42

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 2,000
- * Box : 100,000

PNL3020M-SERIES-A



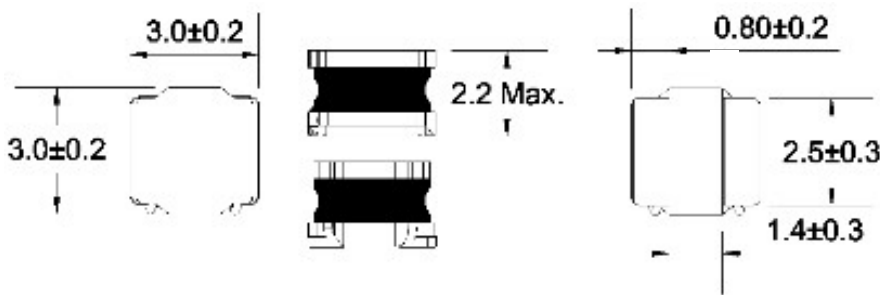
Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

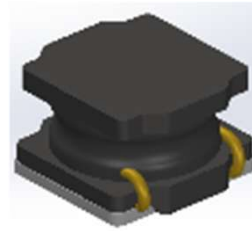
Environmental data

- Operating temperature range : -50°C ~ +125°C(component)
- Storage conditions (packaged) : -25°C ~ +40°C, ≤75% RH
- Complies with AEC-Q200 standard

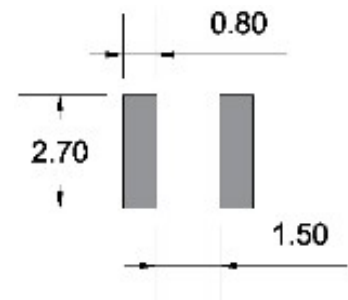
Dimensions [Unit : mm]



Picture



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(uH) 1MHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)	Heating Rating Current DC(A) b)
		TYP.	MAX.	MAX.	MAX.
PNL3020M-R24M-A	0.24±20%	16	20	12.5	6
PNL3020M-R33M-A	0.33±20%	19	25	12	5.8
PNL3020M-R47M-A	0.47±20%	19	25	11	5.5
PNL3020M-R68M-A	0.68±20%	32	42	10	5
PNL3020M-1R0M-A	1.0±20%	36	45	8	4.5
PNL3020M-1R2M-A	1.2±20%	41	53	7.5	3.8
PNL3020M-2R2M-A	2.2±20%	68	88.5	5.3	2.5
PNL3020M-3R3M-A	3.3±20%	99	128	4.6	2.3
PNL3020M-4R7M-A	4.7±20%	118	152	4	2.2
PNL3020M-100M-A	10.0±20%	310	403	2.3	1.5

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 3,000
- * Box : 18,000

PNL3021-SERIES-A



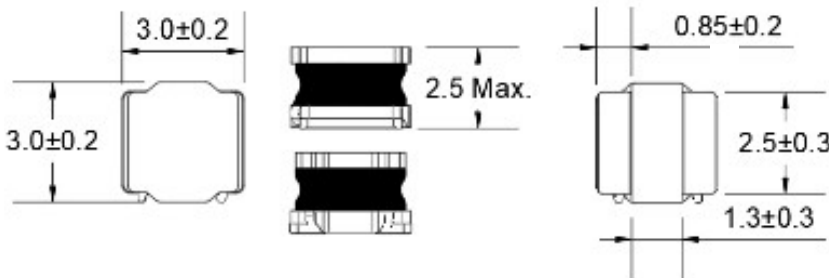
Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

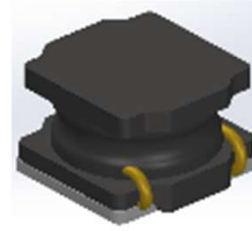
Environmental data

- Operating temperature range : -50°C ~ +125°C(component)
- Storage conditions (packaged) : -25°C ~ +40°C, ≤75% RH
- Complies with AEC-Q200 standard

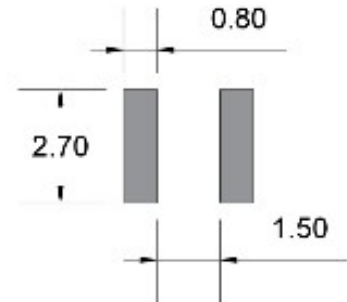
Dimensions [Unit : mm]



Picture



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(uH) 100kHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)	Heating Rating Current DC(A) b)
		TYP.	MAX.	MAX.	MAX.
PNL3021-1R0N-A	1.0±30%	43	56	4	2
PNL3021-1R2N-A	1.2±30%	47	61	3.9	2
PNL3021-1R5N-A	1.5±30%	47	61	3.8	1.95
PNL3021-2R2N-A	2.2±30%	70	91	3.2	1.85
PNL3021-3R3M-A	3.3±20%	92	120	2.7	1.5
PNL3021-4R7M-A	4.7±20%	120	156	2.2	1.2
PNL3021-6R8M-A	6.8±20%	160	208	2	1
PNL3021-8R2M-A	8.2±20%	230	299	1.9	0.96
PNL3021-100M-A	10.0±20%	240	312	1.4	0.93
PNL3021-120M-A	12.0±20%	330	429	1.4	0.9
PNL3021-150M-A	15.0±20%	376	489	1.3	0.86
PNL3021-220M-A	22.0±20%	530	689	1	0.55
PNL3021-330M-A	33.0±20%	800	1,040	0.78	0.45
PNL3021-470M-A	47.0±20%	1,000	1,300	0.7	0.4
PNL3021-560M-A	56.0±20%	1,700	2,210	0.65	0.32
PNL3021-820M-A	82.0±20%	2,100	2,730	0.45	0.28
PNL3021-101M-A	100.0±20%	2,420	3,146	0.4	0.26
PNL3021-151M-A	150.0±20%	4,000	5,200	0.4	0.16

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 3,000
- * Box : 18,000

PNL4012-SERIES-A



Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

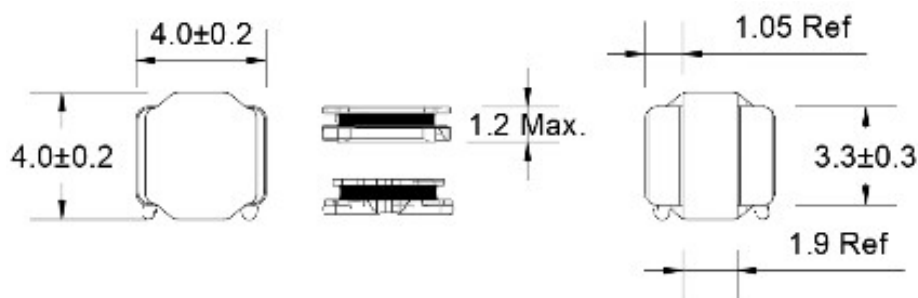
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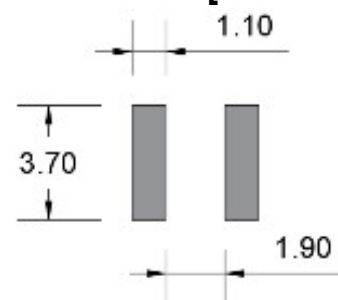
Environmental data

- Operating temperature range : -50°C ~ +125°C(component)
- Storage conditions (packaged) : -25°C ~ +40°C, ≤75% RH
- Complies with AEC-Q200 standard

Dimensions [Unit : mm]



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(uH) 100kHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a	Heating Rating Current DC(A) b)
		TYP.	MAX.	MAX.	MAX.
PNL4012-R24N-A	0.24±30%	20	33	4.8	2.9
PNL4012-R47N-A	0.47±30%	31	52	3.9	2.4
PNL4012-1R0N-A	1.0±30%	42	72	2.8	2
PNL4012-1R5N-A	1.5±30%	51	85	2.2	1.8
PNL4012-2R2M-A	2.2±20%	75	130	1.76	1.32
PNL4012-3R3M-A	3.3±20%	75	130	1.35	1.32
PNL4012-4R7M-A	4.7±20%	125	212	1.15	1
PNL4012-5R6M-A	5.6±20%	150	241	1.15	1
PNL4012-6R8M-A	6.8±20%	175	296	1	0.85
PNL4012-100M-A	10.0±20%	180	304	0.85	0.8
PNL4012-150M-A	15.0±20%	310	520	0.68	0.65
PNL4012-180M-A	18.0±20%	430	715	0.6	0.55
PNL4012-220M-A	22.0±20%	530	897	0.5	0.49
PNL4012-330M-A	33.0±20%	780	1,300	0.5	0.42
PNL4012-470M-A	47.0±20%	1,100	1,859	0.35	0.37

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 4,500
- * Box : 27,000

PNL4012M-SERIES-A



Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

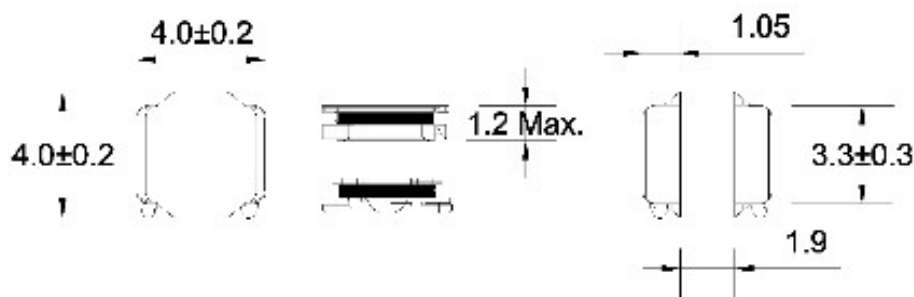
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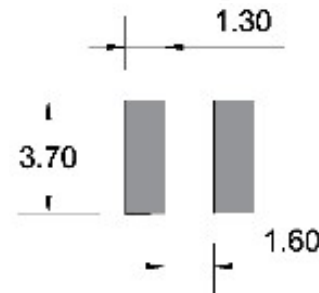
Environmental data

- Operating temperature range : -50°C ~ +125°C(component)
- Storage conditions (packaged) : -25°C ~ +40°C, ≤75% RH
- Complies with AEC-Q200 standard

Dimensions [Unit : mm]



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(uH) 1MHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)	Heating Rating Current DC(A) b)
		TYP.	MAX.	MAX.	MAX.
PNL4012M-R47M-A	0.47±20%	33	41	7.2	3.8
PNL4012M-R56M-A	0.56±20%	40	50	6	3.2
PNL4012M-R68M-A	0.68±20%	42	55	5.2	3.2
PNL4012M-1R0M-A	1.0±20%	49	59	3.8	3
PNL4012M-1R5M-A	1.5±20%	60	75	3.8	2.8
PNL4012M-2R2M-A	2.2±20%	75	90	2.8	2.5
PNL4012M-3R3M-A	3.3±20%	106	130	2.8	2
PNL4012M-4R7M-A	4.7±20%	145	175	2.3	1.8
PNL4012M-6R8M-A	6.8±20%	190	230	1.6	1.5
PNL4012M-8R2M-A	8.2±20%	210	273	1.58	1.46
PNL4012M-100M-A	10.0±20%	300	360	1.55	0.85
PNL4012M-220M-A	22.0±20%	650	800	1	0.8

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 4,500
- * Box : 27,000

PNL4015-SERIES-A



Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

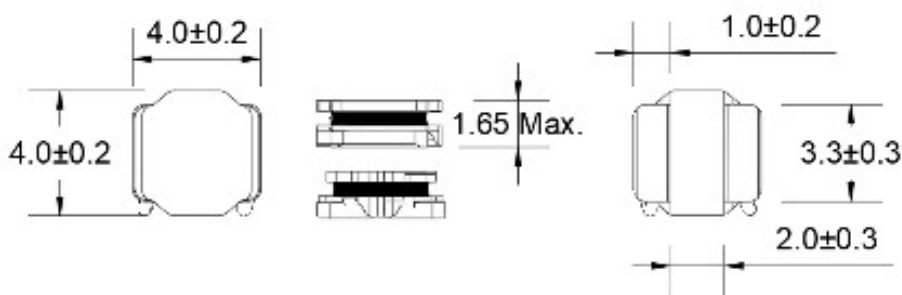
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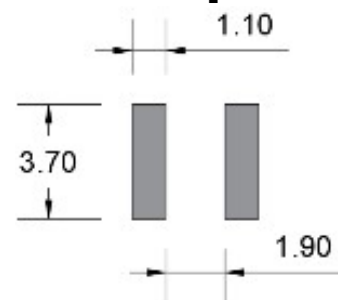
Environmental data

- Operating temperature range : -50°C ~ +125°C(component)
- Storage conditions (packaged) : -25°C ~ +40°C, ≤75% RH
- Complies with AEC-Q200 standard

Dimensions [Unit : mm]



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(uH) 100kHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)	Heating Rating Current DC(A) b)
		TYP.	MAX.	MAX.	MAX.
PNL4015-R50N-A	0.5±30%	25	33	6.3	4.2
PNL4015-1R0N-A	1.0±30%	35	46	3.3	2.5
PNL4015-1R5N-A	1.5±30%	40	52	2.7	2.2
PNL4015-2R2M-A	2.2±20%	53	69	2.1	2
PNL4015-3R3M-A	3.3±20%	75	98	1.9	1.8
PNL4015-4R7M-A	4.7±20%	100	130	1.45	1.35
PNL4015-6R8M-A	6.8±20%	135	176	1.3	1.2
PNL4015-100M-A	10.0±20%	200	260	1.1	1
PNL4015-150M-A	15.0±20%	300	390	0.9	0.85
PNL4015-220M-A	22.0±20%	400	520	0.72	0.68
PNL4015-330M-A	33.0±20%	660	858	0.63	0.58
PNL4015-470M-A	47.0±20%	975	1,268	0.55	0.45
PNL4015-680M-A	68.0±20%	1,600	2,080	0.5	0.42

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 3,000
- * Box : 18,000

PNL4018-SERIES-A



Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

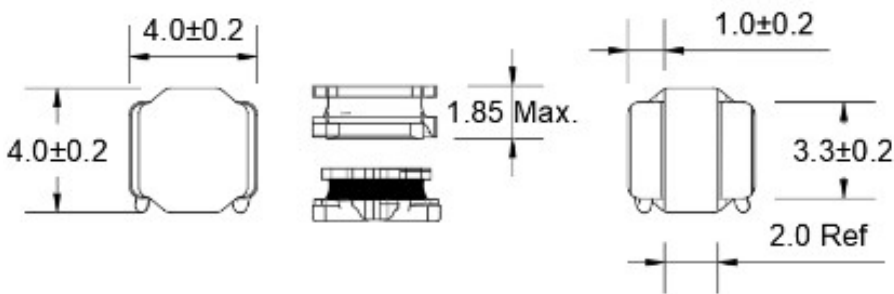
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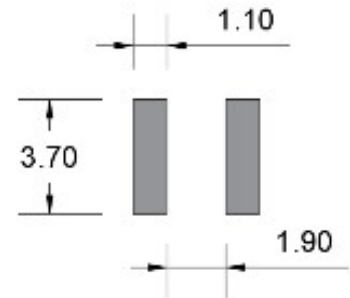
Environmental data

- Operating temperature range : -50°C ~ +125°C(component)
- Storage conditions (packaged) : -25°C ~ +40°C, ≤75% RH
- Complies with AEC-Q200 standard

Dimensions [Unit : mm]



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(uH) 100kHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a	Heating Rating Current DC(A) b)
		TYP.	MAX.	MAX.	MAX.
PNL4018-R47N-A	0.47±30%	18	23	6.5	4.1
PNL4018-1R0N-A	1.0±30%	27	35	4	3.2
PNL4018-1R5N-A	1.5±30%	37	48	3.3	2.4
PNL4018-2R2M-A	2.2±20%	42	55	3	2.2
PNL4018-3R3M-A	3.3±20%	55	72	2.3	2
PNL4018-4R7M-A	4.7±20%	70	91	2	1.7
PNL4018-6R8M-A	6.8±20%	98	127	1.6	1.45
PNL4018-100M-A	10.0±20%	150	195	1.3	1.2
PNL4018-150M-A	15.0±20%	210	273	1.1	0.85
PNL4018-220M-A	22.0±20%	290	377	0.9	0.72
PNL4018-330M-A	33.0±20%	480	624	0.7	0.55
PNL4018-470M-A	47.0±20%	755	982	0.65	0.6
PNL4018-680M-A	68.0±20%	1,000	1,300	0.5	0.5
PNL4018-101M-A	100.0±20%	1,450	1,885	0.42	0.28

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 3,000
- * Box : 18,000

PNL4020-SERIES-A



Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

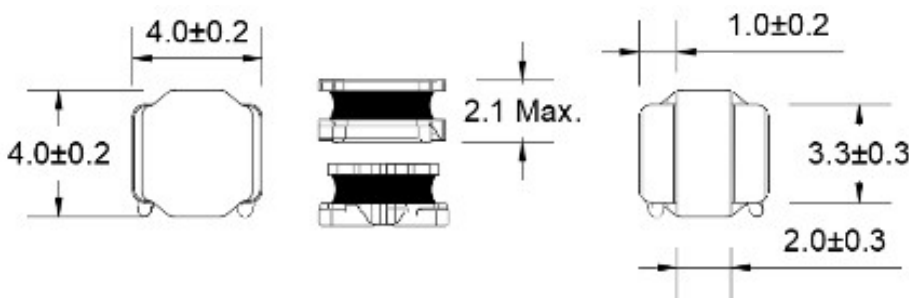
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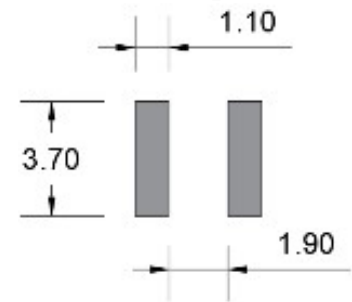
Environmental data

- Operating temperature range : -50°C ~ +125°C(component)
- Storage conditions (packaged) : -25°C ~ +40°C, ≤75% RH
- Complies with AEC-Q200 standard

Dimensions [Unit : mm]



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(uH) 100kHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)	Heating Rating Current DC(A) b)
		TYP.	MAX.		
PNL4020-R33N-A	0.33±30%	13	17	7.5	3.3
PNL4020-R47N-A	0.47±30%	18	23	7.5	3.3
PNL4020-R68N-A	0.68±30%	24	31	7	3.2
PNL4020-1R0N-A	1.0±30%	28	36	5.1	2.15
PNL4020-1R5N-A	1.5±30%	35	46	4.45	1.98
PNL4020-1R8N-A	1.8±30%	45	59	4	1.9
PNL4020-2R2M-A	2.2±20%	45	59	3.4	1.85
PNL4020-2R7M-A	2.7±20%	53	69	3.3	1.6
PNL4020-3R3M-A	3.3±20%	70	91	3.2	1.4
PNL4020-4R7M-A	4.7±20%	80	104	2.35	1.34
PNL4020-6R8M-A	6.8±20%	125	163	2	1.04
PNL4020-8R2M-A	8.2±20%	150	195	1.75	1
PNL4020-100M-A	10.0±20%	165	215	1.6	0.9
PNL4020-120M-A	12.0±20%	175	228	1.5	0.88
PNL4020-150M-A	15.0±20%	230	299	1.35	0.77
PNL4020-220M-A	22.0±20%	350	455	1.05	0.62
PNL4020-330M-A	33.0±20%	500	650	0.85	0.49
PNL4020-470M-A	47.0±20%	710	923	0.74	0.44
PNL4020-560M-A	56.0±20%	800	1,040	0.68	0.4
PNL4020-680M-A	68.0±20%	1,250	1,625	0.6	0.35

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 3,000
- * Box : 18,000

PNL4020M-SERIES-A



Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

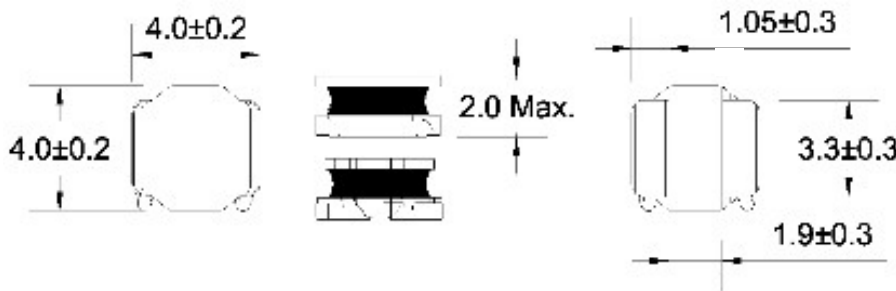
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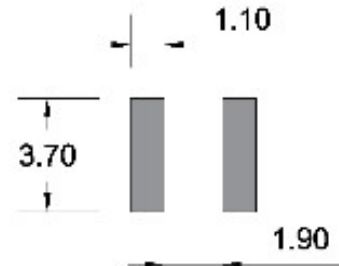
Environmental data

- Operating temperature range : -50°C ~ +125°C(component)
- Storage conditions (packaged) : -25°C ~ +40°C, ≤75% RH
- Complies with AEC-Q200 standard

Dimensions [Unit : mm]



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(uH) 1MHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)	Heating Rating Current DC(A) b)
		TYP.	MAX.	MAX.	MAX.
PNL4020M-R24M-A	0.24±20%	13	17	14	6
PNL4020M-R33M-A	0.33±20%	15	20	13	5.9
PNL4020M-R47M-A	0.47±20%	16	22	11	5.9
PNL4020M-R68M-A	0.68±20%	19.2	24.5	9	5.8
PNL4020M-1R0M-A	1.0±20%	23	28	8.7	5.8
PNL4020M-1R5M-A	1.5±20%	32	38	7.7	5.2
PNL4020M-1R8M-A	1.8±20%	46	56	6.3	4
PNL4020M-2R2M-A	2.2±20%	46	56	6	4
PNL4020M-3R3M-A	3.3±20%	73	88	4.7	3.4
PNL4020M-3R9M-A	3.9±20%	78	100	4.1	3
PNL4020M-4R7M-A	4.7±20%	95	115	4	2.85
PNL4020M-6R8M-A	6.8±20%	130	160	3	2.4
PNL4020M-8R2M-A	8.2±20%	175	220	2	2.1
PNL4020M-100M-A	10.0±20%	190	220	2.8	2
PNL4020M-120M-A	12.0±20%	220	286	2.3	1.5
PNL4020M-150M-A	15.0±20%	305	400	2.1	1
PNL4020M-220M-A	22.0±20%	415	545	1.3	0.95
PNL4020M-330M-A	33.0±20%	650	850	1.2	0.7
PNL4020M-470M-A	47.0±20%	950	1,200	1.1	0.56

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 3,000
- * Box : 18,000

PNL4026-SERIES-A



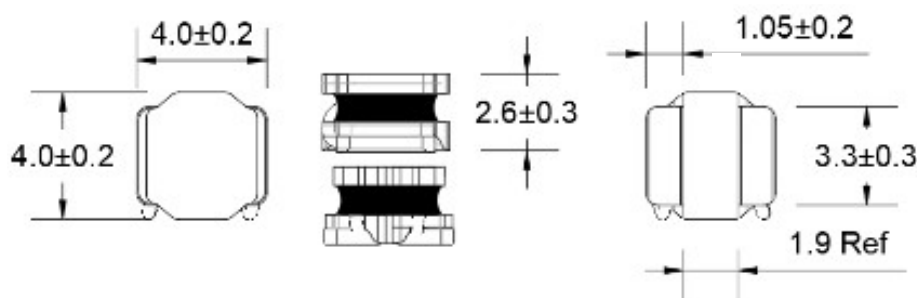
Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

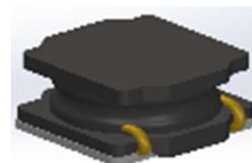
Environmental data

- Operating temperature range : -50℃ ~ +125℃(component)
- Storage conditions (packaged) : -25℃ ~ +40℃, ≤75% RH
- Complies with AEC-Q200 standard

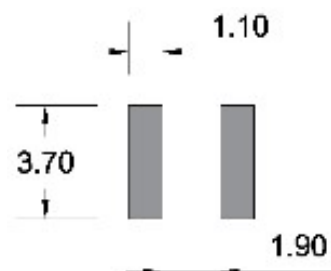
Dimensions [Unit : mm]



Picture



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(uH) 100kHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)	Heating Rating Current DC(A) b)
		TYP.	MAX.	MAX.	MAX.
PNL4026-1R0N-A	1.0±30%	25	34	3.3	2.9
PNL4026-1R5N-A	1.5±30%	30	39	2.5	2.2
PNL4026-2R2M-A	2.2±20%	40	52	2.1	1.8
PNL4026-3R3M-A	3.3±20%	53	69	1.9	1.6
PNL4026-4R7M-A	4.7±20%	58	76	1.7	1.5
PNL4026-6R8M-A	6.8±20%	88	112	1.5	1.2
PNL4026-100M-A	10.0±20%	110	145	1.2	1
PNL4026-150M-A	15.0±20%	156	203	1.1	1
PNL4026-220M-A	22.0±20%	230	300	0.95	0.75
PNL4026-330M-A	33.0±20%	350	455	0.9	0.5
PNL4026-470M-A	47.0±20%	480	618	0.8	0.5
PNL4026-680M-A	68.0±20%	690	891	0.72	0.48
PNL4026-101M-A	100.0±20%	1,200	1,600	0.5	0.3

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 2,000
- * Box : 10,000

PNL4030-SERIES-A



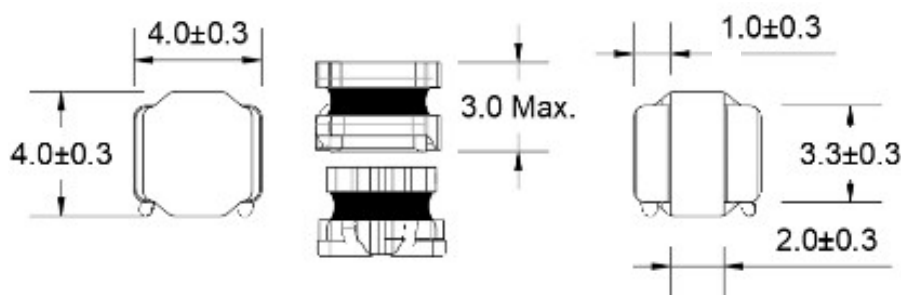
Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

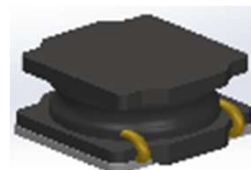
Environmental data

- Operating temperature range : -50℃ ~ +125℃(component)
- Storage conditions (packaged) : -25℃ ~ +40℃, ≤75% RH
- Complies with AEC-Q200 standard

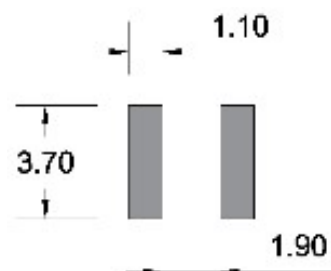
Dimensions [Unit : mm]



Picture



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(uH) 100kHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)	Heating Rating Current DC(A) b)
		TYP.	MAX.	MAX.	MAX.
PNL4030-R47N-A	0.47±30%	11	14	7.5	4
PNL4030-1R0N-A	1.0±30%	15	20	5.9	3.4
PNL4030-1R5N-A	1.5±30%	25	33	4.85	3.3
PNL4030-1R8N-A	1.8±30%	30	39	4.25	3.2
PNL4030-2R2M-A	2.2±20%	35	46	4.1	2.95
PNL4030-3R3M-A	3.3±20%	40	52	3.3	2.4
PNL4030-3R6M-A	3.6±20%	53	69	3.1	2.3
PNL4030-3R9M-A	3.9±20%	57	74	3	2.1
PNL4030-4R7M-A	4.7±20%	60	78	2.9	2
PNL4030-5R6M-A	5.6±20%	70	91	2.75	1.95
PNL4030-6R8M-A	6.8±20%	75	98	2.6	1.7
PNL4030-7R5M-A	7.5±20%	90	117	2.2	1.65
PNL4030-8R2M-A	8.2±20%	100	130	2.1	1.6
PNL4030-100M-A	10.0±20%	115	150	1.95	1.5
PNL4030-120M-A	12.0±20%	140	182	1.7	1.35

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 2,000
- * Box : 10,000

PNL4030-SERIES-A



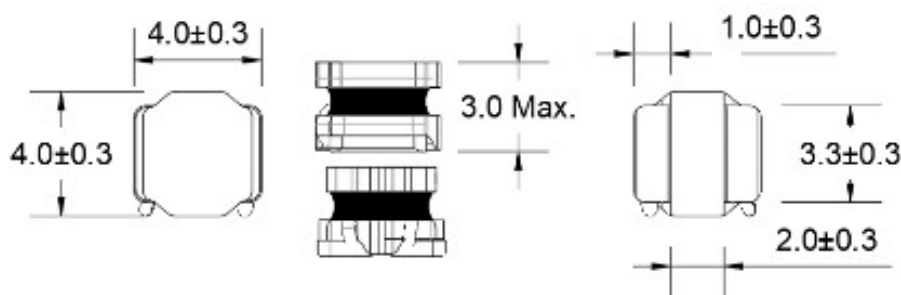
Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

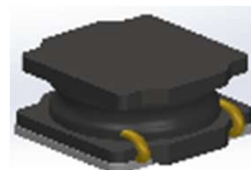
Environmental data

- Operating temperature range : -50℃ ~ +125℃(component)
- Storage conditions (packaged) : -25℃ ~ +40℃, ≤75% RH
- Complies with AEC-Q200 standard

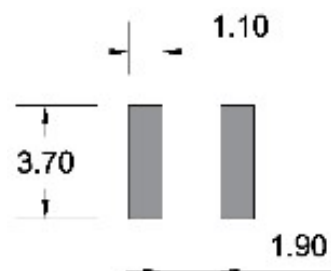
Dimensions [Unit : mm]



Picture



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(uH) 100kHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)	Heating Rating Current DC(A) b)
		TYP.	MAX.	MAX.	MAX.
PNL4030-150M-A	15.0±20%	190	247	1.65	1.15
PNL4030-180M-A	18.0±20%	215	280	1.4	1.1
PNL4030-220M-A	22.0±20%	225	293	1.3	1
PNL4030-270M-A	27.0±20%	320	416	1.25	0.9
PNL4030-330M-A	33.0±20%	330	429	1.1	0.84
PNL4030-470M-A	47.0±20%	500	650	0.9	0.72
PNL4030-560M-A	56.0±20%	560	728	0.85	0.65
PNL4030-680M-A	68.0±20%	750	975	0.75	0.55
PNL4030-820M-A	82.0±20%	950	1,235	0.68	0.5
PNL4030-101M-A	100.0±20%	1,150	1,495	0.6	0.45
PNL4030-151M-A	150.0±20%	2,350	3,055	0.5	0.35
PNL4030-181M-A	180.0±20%	2,500	3,250	0.4	0.35
PNL4030-221M-A	220.0±20%	3,000	3,900	0.4	0.3
PNL4030-331M-A	330.0±20%	4,400	5,720	0.3	0.23
PNL4030-471M-A	470.0±20%	5,500	7,150	0.3	0.2

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 2,000
- * Box : 10,000

PNL5012-SERIES-A



Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

Picture



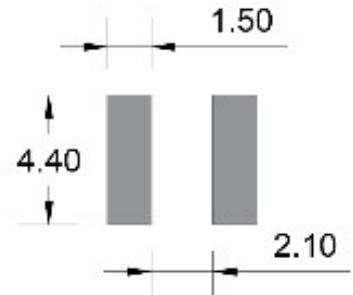
Environmental data

- Operating temperature range : -50°C ~ +125°C(component)
- Storage conditions (packaged) : -25°C ~ +40°C, ≤75% RH
- Complies with AEC-Q200 standard

Dimensions [Unit : mm]



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(uH) 100kHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)	Heating Rating Current DC(A) b)
		TYP.	MAX.	MAX.	MAX.
PNL5012-1R0N-A	1.0±30%	57	74	4.4	2.4
PNL5012-1R5N-A	1.5±30%	72	94	3.7	2.25
PNL5012-2R2M-A	2.2±20%	90	117	3.1	2
PNL5012-3R3M-A	3.3±20%	126	164	2.45	1.7
PNL5012-4R7M-A	4.7±20%	180	234	2.2	1.3
PNL5012-5R6M-A	5.6±20%	230	299	2	1.1
PNL5012-6R8M-A	6.8±20%	245	319	1.75	1.1
PNL5012-100M-A	10.0±20%	344	447	1.4	1.05
PNL5012-150M-A	15.0±20%	480	624	1.25	0.92
PNL5012-220M-A	22.0±20%	780	1,014	0.92	0.58

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 4,500
- * Box : 27,000

PNL5015-SERIES-A



Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

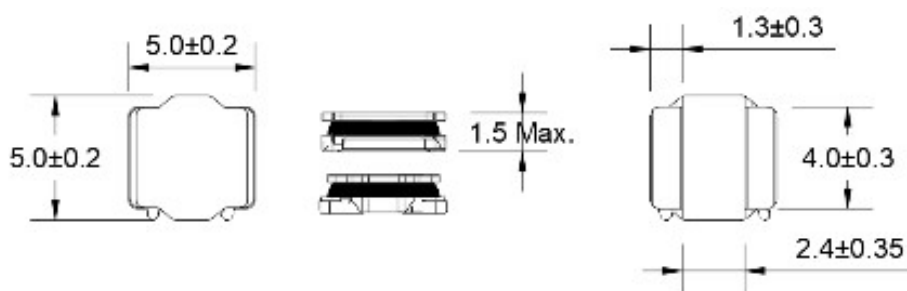
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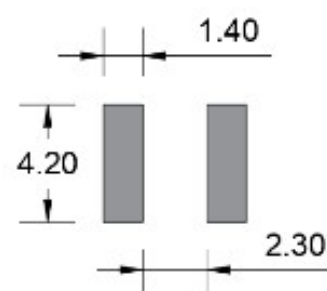
Environmental data

- Operating temperature range : -50°C ~ +125°C(component)
- Storage conditions (packaged) : -25°C ~ +40°C, ≤75% RH
- Complies with AEC-Q200 standard

Dimensions [Unit : mm]



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(uH) 100kHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)	Heating Rating Current DC(A) b)
		TYP.	MAX.	MAX.	MAX.
PNL5015-1R0N-A	1.0±30%	35	46	4.5	2.8
PNL5015-1R5N-A	1.5±30%	50	65	3.5	2.5
PNL5015-2R2N-A	2.2±30%	65	85	3	2.2
PNL5015-3R3N-A	3.3±30%	80	104	2.5	1.9
PNL5015-4R7N-A	4.7±30%	100	130	2.1	1.6
PNL5015-6R8M-A	6.8±20%	150	195	1.65	1.4
PNL5015-100M-A	10.0±20%	200	260	1.45	1.2
PNL5015-150M-A	15.0±20%	320	416	1.2	0.85
PNL5015-220M-A	22.0±20%	450	585	1	0.75
PNL5015-330M-A	33.0±20%	780	1,014	0.95	0.58
PNL5015-470M-A	47.0±20%	1,200	1,560	0.88	0.4
PNL5015-680M-A	68.0±20%	1,900	2,470	0.72	0.35

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 3,000
- * Box : 18,000

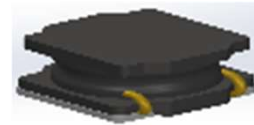
PNL5020-SERIES-A



Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

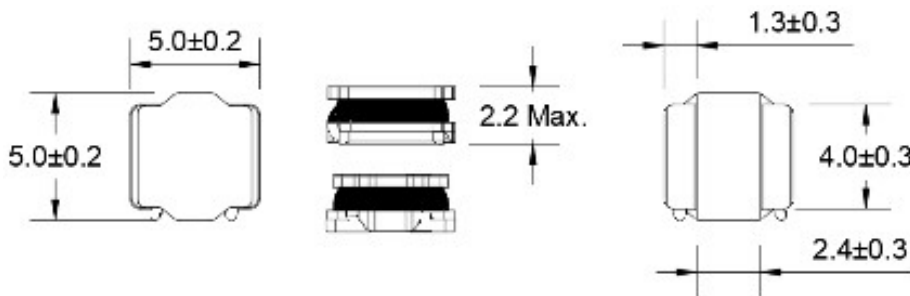
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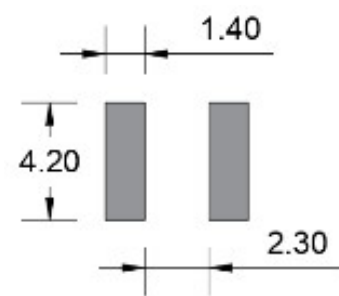
Environmental data

- Operating temperature range : -50°C ~ +125°C(component)
- Storage conditions (packaged) : -25°C ~ +40°C, ≤75% RH
- Complies with AEC-Q200 standard

Dimensions [Unit : mm]



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(uH) 100kHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)	Heating Rating Current DC(A) b)
		TYP.	MAX.	MAX.	MAX.
PNL5020-R22N-A	0.22±30%	11	14	8	5
PNL5020-R24N-A	0.24±30%	11	14	8	5
PNL5020-R33N-A	0.33±30%	15	20	7.5	4.6
PNL5020-R47N-A	0.47±30%	15	20	6.15	4.6
PNL5020-1R0N-A	1.0±30%	20	26	4.33	3.7
PNL5020-1R2N-A	1.2±30%	25	33	4.2	3.5
PNL5020-1R5N-A	1.5±30%	26	34	4.1	3.2
PNL5020-1R8N-A	1.8±30%	30	39	4	3
PNL5020-2R2N-A	2.2±30%	38	49	3.85	2.9
PNL5020-2R7N-A	2.7±30%	45	59	3.5	2.4
PNL5020-3R3N-A	3.3±30%	46	60	3.25	2.4
PNL5020-3R6N-A	3.6±30%	48	62	2.9	2.3
PNL5020-3R9N-A	3.9±30%	50	65	2.9	2.15
PNL5020-4R7M-A	4.7±20%	65	85	2.4	2.05

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 3,000
- * Box : 18,000

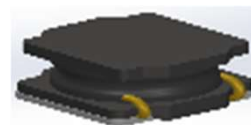
PNL5020-SERIES-A



Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

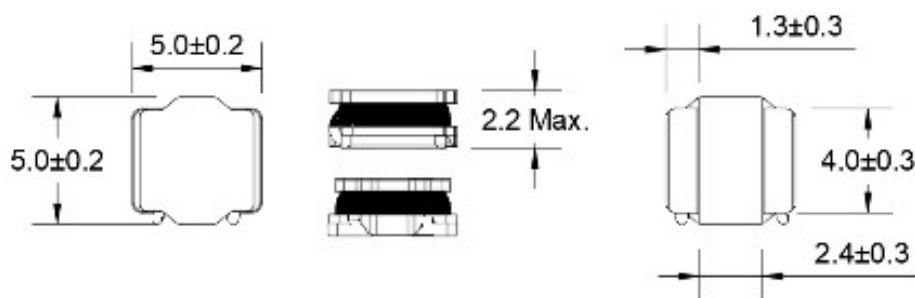
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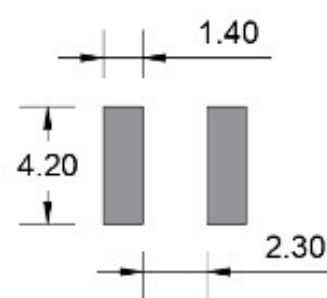
Environmental data

- Operating temperature range : -50°C ~ +125°C(component)
- Storage conditions (packaged) : -25°C ~ +40°C, ≤75% RH
- Complies with AEC-Q200 standard

Dimensions [Unit : mm]



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(uH) 100kHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)	Heating Rating Current DC(A) b)
		TYP.	MAX.	MAX.	MAX.
PNL5020-5R6M-A	5.6±20%	72	94	2.3	1.85
PNL5020-6R8M-A	6.8±20%	92	120	2.1	1.7
PNL5020-8R2M-A	8.2±20%	100	130	1.9	1.6
PNL5020-100M-A	10.0±20%	125	163	1.8	1.5
PNL5020-150M-A	15.0±20%	180	234	1.44	1.25
PNL5020-220M-A	22.0±20%	250	325	1.18	1.05
PNL5020-270M-A	27.0±20%	300	390	1.1	1
PNL5020-330M-A	33.0±20%	370	481	0.97	0.83
PNL5020-470M-A	47.0±20%	560	728	0.81	0.7
PNL5020-680M-A	68.0±20%	850	1,105	0.7	0.53
PNL5020-820M-A	82.0±20%	950	1,235	0.65	0.5
PNL5020-101M-A	100.0±20%	1,100	1,430	0.57	0.43
PNL5020-151M-A	150.0±20%	1,500	1,950	0.41	0.4
PNL5020-221M-A	220.0±20%	2,230	2,899	0.35	0.3

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 3,000
- * Box : 18,000

PNL5030-SERIES-A



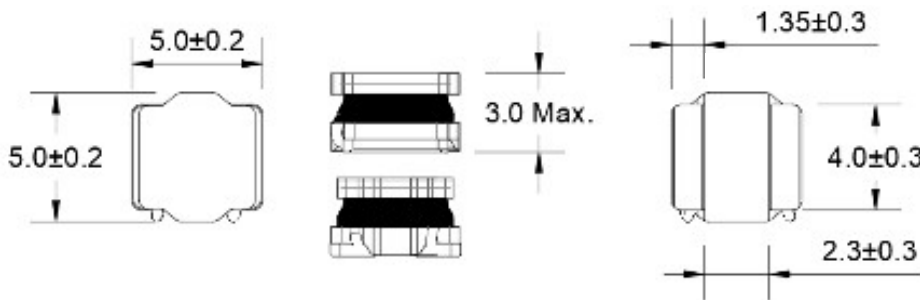
Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

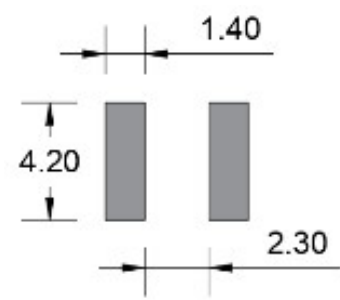
Environmental data

- Operating temperature range : -50°C ~ +125°C(component)
- Storage conditions (packaged) : -25°C ~ +40°C, ≤75% RH
- Complies with AEC-Q200 standard

Dimensions [Unit : mm]



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(uH) 100kHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)	Heating Rating Current DC(A) b)
		TYP.	MAX.	MAX.	MAX.
PNL5030-R47N-A	0.47±30%	10	13	9	5
PNL5030-1R0N-A	1.0±30%	15	20	6.65	4
PNL5030-1R5N-A	1.5±30%	16	21	4.8	3.9
PNL5030-2R2M-A	2.2±20%	23	30	4.2	3.5
PNL5030-3R3M-A	3.3±20%	30	39	3.6	3
PNL5030-4R7M-A	4.7±20%	35	46	3.1	2.6
PNL5030-6R8M-A	6.8±20%	52	68	2.5	2.3
PNL5030-100M-A	10.0±20%	70	91	1.9	1.7
PNL5030-150M-A	15.0±20%	125	163	1.6	1.4
PNL5030-220M-A	22.0±20%	180	234	1.4	1.05
PNL5030-270M-A	27.0±20%	190	247	1.3	0.9
PNL5030-330M-A	33.0±20%	225	293	1.15	0.8
PNL5030-470M-A	47.0±20%	325	423	0.95	0.7
PNL5030-560M-A	56.0±20%	420	546	0.89	0.65
PNL5030-680M-A	68.0±20%	475	618	0.85	0.6
PNL5030-101M-A	100.0±20%	720	936	0.58	0.59
PNL5030-151M-A	150.0±20%	1,050	1,365	0.56	0.55
PNL5030-221M-A	220.0±20%	1,300	1,690	0.5	0.45

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 2,000
- * Box : 12,000

PNL5040-SERIES-A



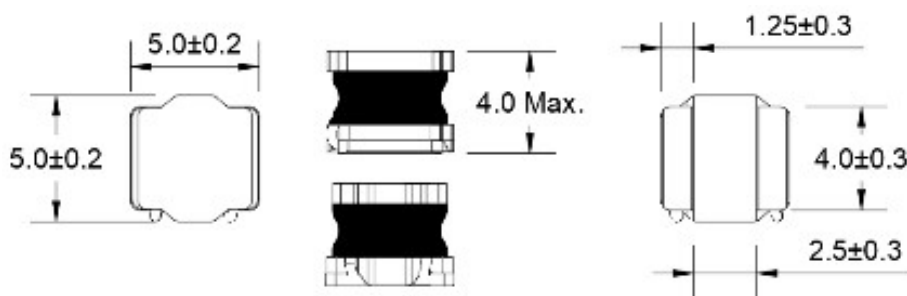
Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

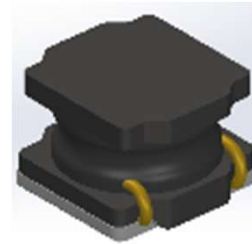
Environmental data

- Operating temperature range : -50°C ~ +125°C(component)
- Storage conditions (packaged) : -25°C ~ +40°C, ≤75% RH
- Complies with AEC-Q200 standard

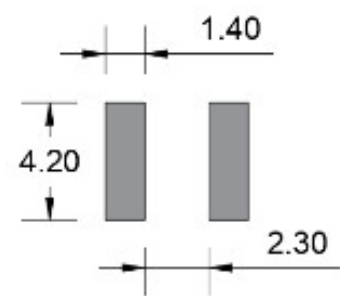
Dimensions [Unit : mm]



Picture



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(uH) 100kHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)	Heating Rating Current DC(A) b)
		TYP.	MAX.	MAX.	MAX.
PNL5040-1R0N-A	1.0±30%	13	17	7.35	4.9
PNL5040-1R5N-A	1.5±30%	15	20	6.3	4.3
PNL5040-1R8N-A	1.8±30%	18	23	6.1	3.9
PNL5040-2R2N-A	2.2±30%	19	25	4.9	3.8
PNL5040-2R7N-A	2.7±30%	22	29	4.3	3.6
PNL5040-3R3N-A	3.3±30%	24	31	3.95	3.4
PNL5040-3R9N-A	3.9±30%	27	35	3.55	3.2
PNL5040-4R7M-A	4.7±20%	30	39	3.5	3
PNL5040-6R8M-A	6.8±20%	43	56	3	2.5
PNL5040-8R2M-A	8.2±20%	55	72	2.9	2.3
PNL5040-100M-A	10.0±20%	64	83	2.35	2.1
PNL5040-150M-A	15.0±20%	86	112	2	2
PNL5040-220M-A	22.0±20%	129	168	1.6	1.5
PNL5040-270M-A	27.0±20%	165	215	1.5	1.3
PNL5040-330M-A	33.0±20%	188	244	1.3	1.2
PNL5040-390M-A	39.0±20%	225	293	1.2	1.1
PNL5040-470M-A	47.0±20%	270	351	1.1	1
PNL5040-680M-A	68.0±20%	400	520	0.9	0.8
PNL5040-101M-A	100.0±20%	560	728	0.75	0.7
PNL5040-221M-A	220.0±20%	1,200	1,560	0.45	0.4
PNL5040-471M-A	470.0±20%	2,800	3,640	0.4	0.3

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 1,500
- * Box : 9,000

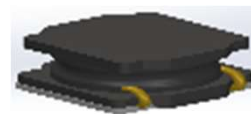
PNL6015-SERIES-A



Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

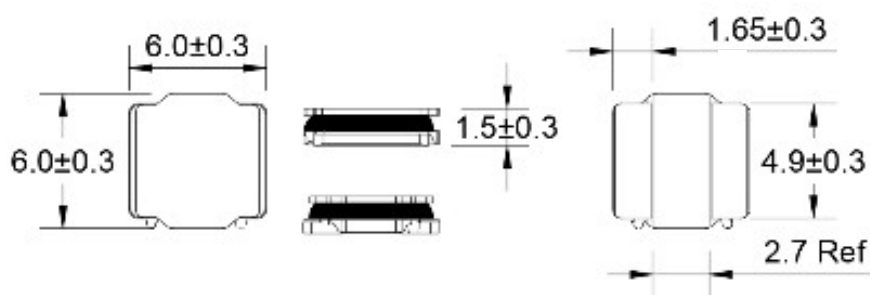
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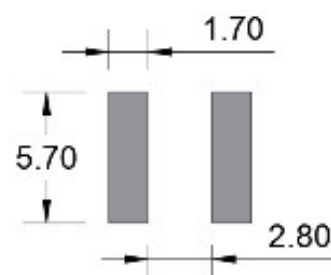
Environmental data

- Operating temperature range : -50°C ~ +125°C(component)
- Storage conditions (packaged) : -25°C ~ +40°C, ≤75% RH
- Complies with AEC-Q200 standard

Dimensions [Unit : mm]



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(uH) 100kHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)	Heating Rating Current DC(A) b)
		TYP.	MAX.		
PNL6015-1R2N-A	1.2±30%	35	46	4.2	2.8
PNL6015-2R2N-A	2.2±30%	50	65	3.1	2.3
PNL6015-3R3N-A	3.3±30%	60	78	2.6	2.1
PNL6015-4R7M-A	4.7±20%	90	117	2.1	1.9
PNL6015-5R6M-A	5.6±20%	92	120	2	1.8
PNL6015-6R8M-A	6.8±20%	115	150	1.8	1.65
PNL6015-100M-A	10.0±20%	155	202	1.45	1.35
PNL6015-150M-A	15.0±20%	220	286	1.2	1.2
PNL6015-220M-A	22.0±20%	320	416	1	1

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 3,000
- * Box : 18,000

PNL6020-SERIES-A



Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

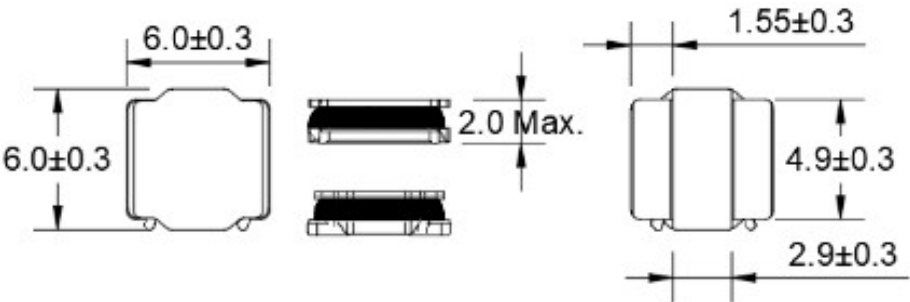
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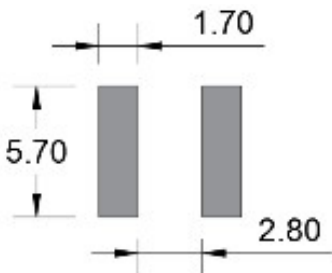
Environmental data

- Operating temperature range : -50℃ ~ +125℃(component)
- Storage conditions (packaged) : -25℃ ~ +40℃, ≤75% RH
- Complies with AEC-Q200 standard

Dimensions [Unit : mm]



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(uH) 100kHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)	Heating Rating Current DC(A) b)
		TYP.	MAX.	MAX.	MAX.
PNL6020-R68N-A	0.68±30%	15	20	7.5	3.8
PNL6020-1R0N-A	1.0±30%	20	26	4.8	3.5
PNL6020-1R2N-A	1.2±30%	20	26	4.3	3.5
PNL6020-1R5N-A	1.5±30%	25	33	4.3	3.2
PNL6020-2R2N-A	2.2±30%	35	46	3.75	2.75
PNL6020-3R3N-A	3.3±30%	45	59	3.15	2.6
PNL6020-4R7N-A	4.7±30%	58	75	3	2
PNL6020-5R6M-A	5.6±20%	70	91	2.4	1.9
PNL6020-6R8M-A	6.8±20%	85	111	2.2	1.8
PNL6020-100M-A	10.0±20%	120	156	1.75	1.4
PNL6020-150M-A	15.0±20%	160	208	1.5	1.2
PNL6020-220M-A	22.0±20%	240	312	1.25	1
PNL6020-270M-A	27.0±20%	350	455	1.15	0.95
PNL6020-330M-A	33.0±20%	400	520	1.1	0.9
PNL6020-470M-A	47.0±20%	500	650	1	0.8
PNL6020-680M-A	68.0±20%	815	1,060	0.8	0.68

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 3,000
- * Box : 18,000

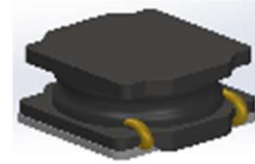
PNL6028-SERIES-A



Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

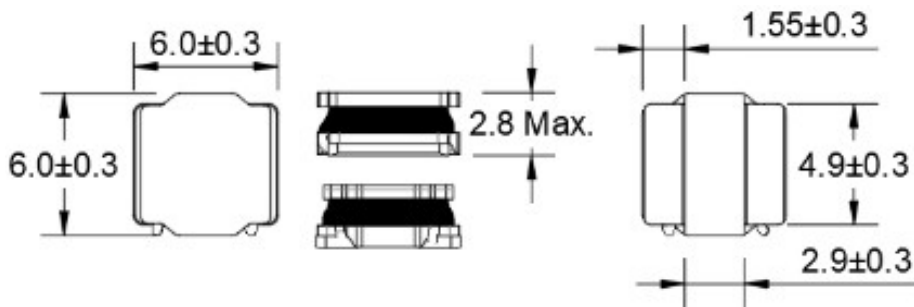
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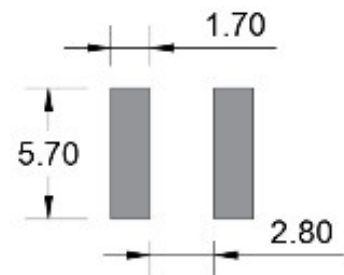
Environmental data

- Operating temperature range : -50°C ~ +125°C(component)
- Storage conditions (packaged) : -25°C ~ +40°C, ≤75% RH
- Complies with AEC-Q200 standard

Dimensions [Unit : mm]



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(uH) 100kHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)	Heating Rating Current DC(A) b)
		TYP.	MAX.		
PNL6028-1R0N-A	1.0±30%	12	16	6.7	4.6
PNL6028-1R5N-A	1.5±30%	16	21	6	4.3
PNL6028-1R8N-A	1.8±30%	19	25	5.3	4.1
PNL6028-2R2N-A	2.2±30%	20	26	5.1	3.75
PNL6028-3R3N-A	3.3±30%	25	33	3.63	3.4
PNL6028-4R7N-A	4.7±30%	33	43	3	3
PNL6028-5R6N-A	5.6±30%	45	59	2.8	2.45
PNL6028-6R8M-A	6.8±20%	56	73	2.6	2.4
PNL6028-8R2M-A	8.2±20%	68	88	2.4	2.25
PNL6028-100M-A	10.0±20%	78	101	2.05	1.9
PNL6028-150M-A	15.0±20%	125	163	1.75	1.5
PNL6028-180M-A	18.0±20%	130	169	1.55	1.45
PNL6028-220M-A	22.0±20%	140	182	1.45	1.4
PNL6028-270M-A	27.0±20%	180	234	1.4	1.3
PNL6028-330M-A	33.0±20%	220	286	1.35	1.1
PNL6028-470M-A	47.0±20%	280	364	1.15	1.05
PNL6028-680M-A	68.0±20%	420	546	0.95	0.85
PNL6028-820M-A	82.0±20%	550	715	0.8	0.7
PNL6028-101M-A	100.0±20%	670	871	0.65	0.6
PNL6028-121M-A	120.0±20%	820	1,066	0.62	0.58

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 2,000
- * Box : 12,000

PNL6045-SERIES-A



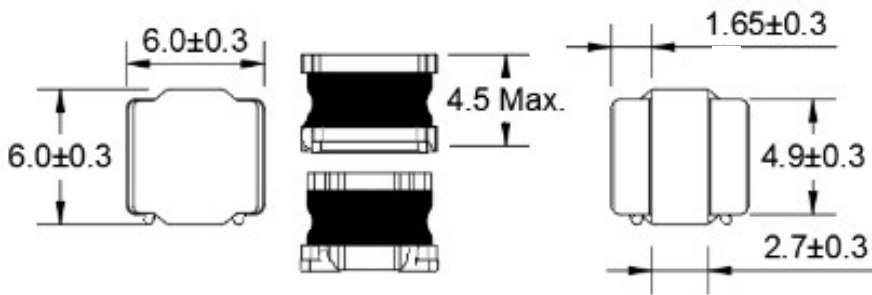
Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

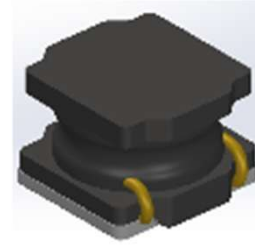
Environmental data

- Operating temperature range : -50°C ~ +125°C(component)
- Storage conditions (packaged) : -25°C ~ +40°C, ≤75% RH
- Complies with AEC-Q200 standard

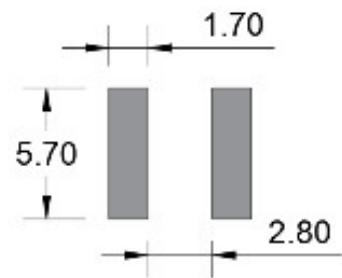
Dimensions [Unit : mm]



Picture



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(uH) 100kHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)	Heating Rating Current DC(A) b)
		TYP.	MAX.	MAX.	MAX.
PNL6045-1R0N-A	1.0±30%	11	14	9.85	5.14
PNL6045-1R8N-A	1.8±30%	12	16	7.6	4.95
PNL6045-2R2N-A	2.2±30%	14	18	6.75	4.6
PNL6045-2R7N-A	2.7±30%	15	20	5.75	4.3
PNL6045-3R3N-A	3.3±30%	21	27	5.9	3.7
PNL6045-4R7M-A	4.7±20%	26	34	4.97	3.3
PNL6045-5R1M-A	5.1±20%	26	34	4.4	3.3
PNL6045-5R6M-A	5.6±20%	29	38	4.15	3.15
PNL6045-6R8M-A	6.8±20%	31	40	3.9	3
PNL6045-100M-A	10±20%	48	62	3.2	2.45
PNL6045-120M-A	12±20%	58	75	2.8	2.2
PNL6045-150M-A	15±20%	68	88	2.5	2.05
PNL6045-180M-A	18±20%	81	105	2.2	1.85
PNL6045-220M-A	22±20%	89	116	2.05	1.8
PNL6045-270M-A	27±20%	102	133	1.9	1.65
PNL6045-300M-A	30±20%	132	172	1.7	1.5

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 1,500
- * Box : 9,000

PNL6045-SERIES-A



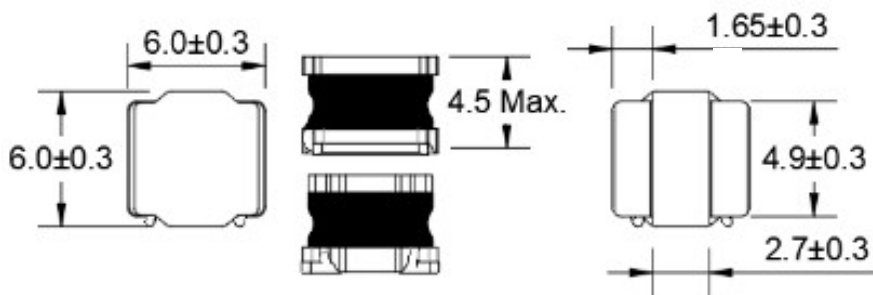
Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

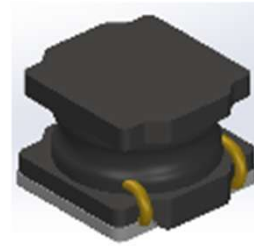
Environmental data

- Operating temperature range : -50℃ ~ +125℃(component)
- Storage conditions (packaged) : -25℃ ~ +40℃, ≤75% RH
- Complies with AEC-Q200 standard

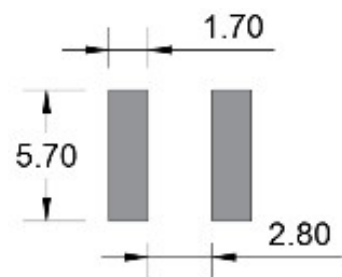
Dimensions [Unit : mm]



Picture



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(uH) 100kHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)	Heating Rating Current DC(A) b)
		TYP.	MAX.	MAX.	MAX.
PNL6045-330M-A	33±20%	137	178	1.65	1.45
PNL6045-360M-A	36±20%	173	225	1.62	1.4
PNL6045-390M-A	39±20%	180	234	1.5	1.25
PNL6045-470M-A	47±20%	200	260	1.4	1.2
PNL6045-560M-A	56±20%	221	287	1.3	1.1
PNL6045-680M-A	68±20%	289	376	1.2	1
PNL6045-820M-A	82±20%	341	443	1.05	0.9
PNL6045-101M-A	100±20%	433	563	0.95	0.8
PNL6045-121M-A	120±20%	484	629	0.85	0.77
PNL6045-151M-A	150±20%	580	754	0.8	0.7
PNL6045-221M-A	220±20%	834	1,084	0.7	0.59
PNL6045-331M-A	330±20%	1,270	1,651	0.57	0.57
PNL6045-681M-A	680±20%	2,500	3,250	0.42	0.33
PNL6045-102M-A	1,000±20%	4,500	5,850	0.3	0.3
PNL6045-152M-A	1,500±20%	6,500	8,450	0.24	0.21
PNL6045-222M-A	2,200±20%	10,400	12,480	0.2	0.17

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 1,500
- * Box : 9,000

PNL8040-SERIES-A



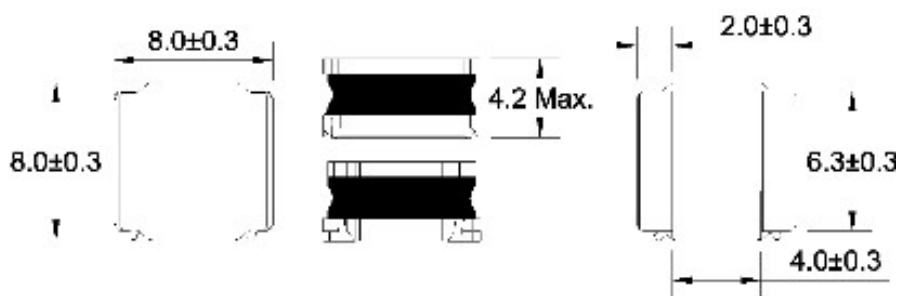
Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

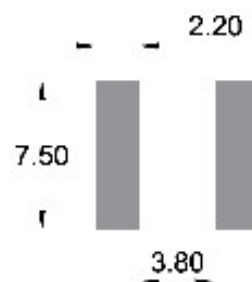
Environmental data

- Operating temperature range : -50°C ~ +125°C(component)
- Storage conditions (packaged) : -25°C ~ +40°C, ≤75% RH
- Complies with AEC-Q200 standard

Dimensions [Unit : mm]



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(uH) 100kHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)	Heating Rating Current DC(A) b)
		TYP.	MAX.	MAX.	MAX.
PNL8040-R56N-A	0.56±30%	5	7	11.5	7.6
PNL8040-1R0N-A	1.0±30%	8	10	9.85	6.3
PNL8040-1R5N-A	1.5±30%	10	13	8.15	5.65
PNL8040-2R2N-A	2.2±30%	12	16	7.1	5.15
PNL8040-3R3N-A	3.3±30%	17	22	6.5	4.4
PNL8040-4R7N-A	4.7±30%	20	26	5.9	4
PNL8040-5R6N-A	5.6±30%	24	31	5.5	3.8
PNL8040-6R8M-A	6.8±20%	28	36	4.55	3.6
PNL8040-8R2M-A	8.2±20%	35	46	4.2	3.4
PNL8040-100M-A	10.0±20%	37	48	3.6	3.1
PNL8040-150M-A	15.0±20%	56	73	2.95	2.5
PNL8040-180M-A	18.0±20%	58	75	2.7	2.4
PNL8040-220M-A	22.0±20%	74	96	2.4	2
PNL8040-270M-A	27.0±20%	80	104	2.15	1.9

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 1,000
- * Box : 5,000

PNL8040-SERIES-A



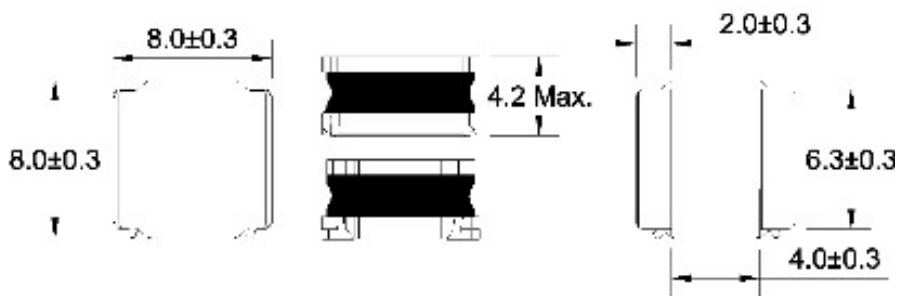
Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

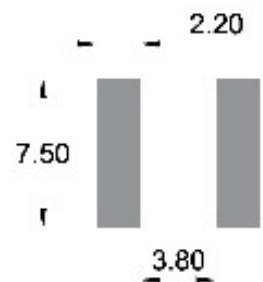
Environmental data

- Operating temperature range : -50℃ ~ +125℃(component)
- Storage conditions (packaged) : -25℃ ~ +40℃, ≤75% RH
- Complies with AEC-Q200 standard

Dimensions [Unit : mm]



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(uH) 100kHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)	Heating Rating Current DC(A) b)
		TYP.	MAX.	MAX.	MAX.
PNL8040-330M-A	33.0±20%	100	130	2.05	1.7
PNL8040-470M-A	47.0±20%	158	205	1.75	1.5
PNL8040-560M-A	56.0±20%	160	208	1.55	1.4
PNL8040-680M-A	68.0±20%	196	255	1.45	1.2
PNL8040-820M-A	82.0±20%	245	319	1.3	1.1
PNL8040-101M-A	100.0±20%	295	384	1.15	1
PNL8040-121M-A	120.0±20%	380	494	1.1	0.9
PNL8040-151M-A	150.0±20%	470	611	1.1	0.8
PNL8040-171M-A	170.0±20%	538	699	0.95	0.75
PNL8040-181M-A	180.0±20%	610	793	0.9	0.75
PNL8040-221M-A	220.0±20%	660	858	0.85	0.7
PNL8040-331M-A	330.0±20%	970	1,261	0.68	0.55
PNL8040-471M-A	470.0±20%	1,400	1,820	0.6	0.48
PNL8040-681M-A	680.0±20%	1,750	2,275	0.5	0.45

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 1,000
- * Box : 5,000

PNL8050-SERIES-A



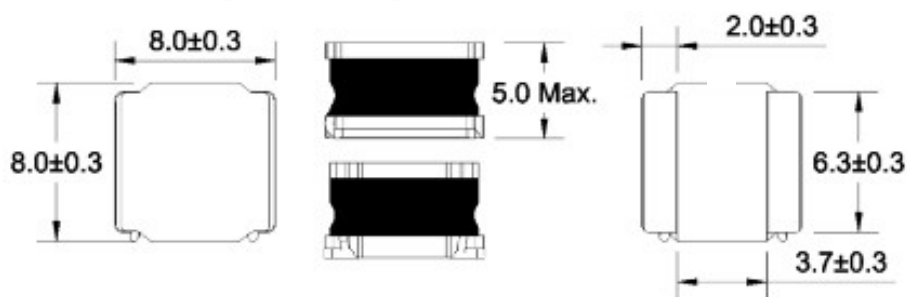
Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

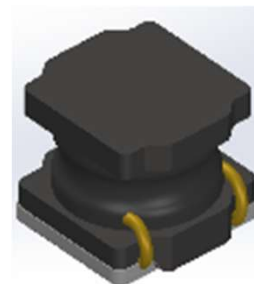
Environmental data

- Operating temperature range : -50℃ ~ +125℃(component)
- Storage conditions (packaged) : -25℃ ~ +40℃, ≤75% RH
- Complies with AEC-Q200 standard

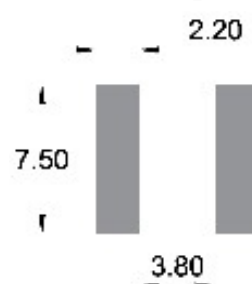
Dimensions [Unit : mm]



Picture



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(uH) 100kHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)	Heating Rating Current DC(A) b)
		TYP.	MAX.	MAX.	MAX.
PNL8050-100M-A	10±20%	27	35	3.2	3.1
PNL8050-220M-A	22±20%	50	65	2.6	2.9
PNL8050-330M-A	33±20%	75	97	2	2.1
PNL8050-680M-A	68±20%	155	201	1.4	1.3
PNL8050-331M-A	330±20%	700	910	0.6	0.7
PNL8050-821M-A	820±20%	1,800	2,340	0.37	0.46
PNL8050-102M-A	1,000±20%	2,100	2,730	0.35	0.32
PNL8050-122M-A	1,200±20%	2,300	2,990	0.32	0.3
PNL8050-152M-A	1,500±20%	3,000	3,900	0.26	0.25
PNL8050-252M-A	2,500±20%	5,300	6,890	0.23	0.23
PNL8050-472M-A	4,700±20%	9,500	12,350	0.16	0.2

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 700
- * Box : 3,500

PNL8065-SERIES-A



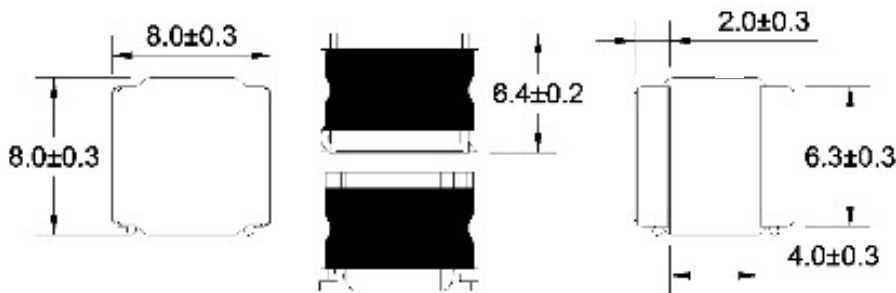
Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

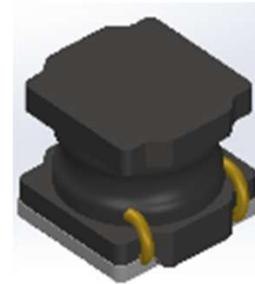
Environmental data

- Operating temperature range : -50°C ~ +125°C(component)
- Storage conditions (packaged) : -25°C ~ +40°C, ≤75% RH
- Complies with AEC-Q200 standard

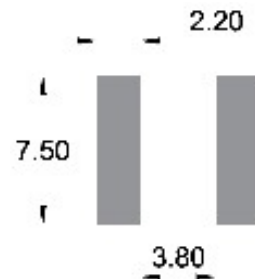
Dimensions [Unit : mm]



Picture



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance(uH) 100kHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)	Heating Rating Current DC(A) b)
		TYP.	MAX.	MAX.	MAX.
PNL8065-4R7N-A	4.7±30%	18	23	8.5	4.7
PNL8065-6R8M-A	6.8±20%	26	34	7.6	4.3
PNL8065-100M-A	10.0±20%	33	43	6.6	4
PNL8065-220M-A	22.0±20%	54	70	4.3	2.8
PNL8065-330M-A	33.0±20%	83	108	3.6	2
PNL8065-470M-A	47.0±20%	135	176	2.85	1.8
PNL8065-680M-A	68.0±20%	181	235	2.5	1.5
PNL8065-820M-A	82.0±20%	215	280	2.3	1.4
PNL8065-101M-A	100.0±20%	250	325	2	1.3
PNL8065-151M-A	150.0±20%	360	468	1.6	1
PNL8065-221M-A	220.0±20%	528	686	1.3	0.9
PNL8065-102M-A	1,000.0±20%	2,350	3,055	0.65	0.4
PNL8065-222M-A	2,200.0±20%	5,000	6,500	0.45	0.27

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 700
- * Box : 3,500

BSL1080-SERIES-A



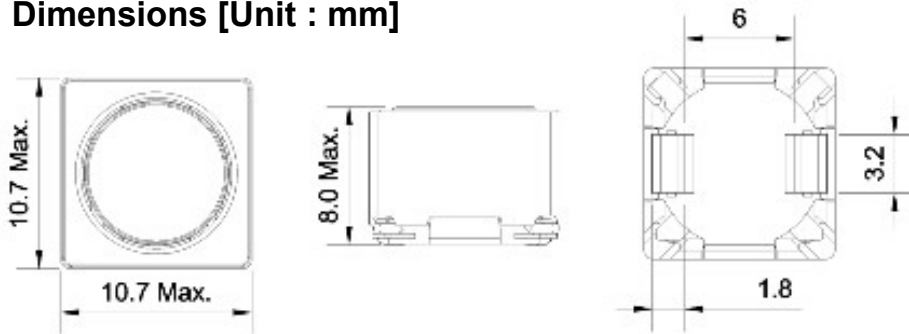
Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

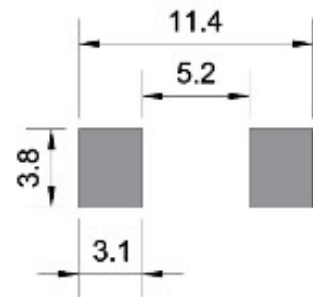
Environmental data

- Operating temperature range : -50°C ~ +165°C(component)
- Storage conditions (packaged) : -25°C ~ +40°C, ≤75% RH
- Complies with AEC-Q200 standard

Dimensions [Unit : mm]



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance (uH) 100kHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) 25 °C a)	Saturation Current DC(A) 125 °C b)	Heating Rating Current DC(A) c)
		TYP.	MAX.	TYP.	TYP.	TYP.
BSL1080-1R0N-A	1.0±30%	8.5	10.2	40	31	11
BSL1080-1R5M-A	1.5±20%	9.9	11.9	34	26	10.3
BSL1080-2R2M-A	2.2±20%	11.3	13.5	29	21.6	9.6
BSL1080-3R3M-A	3.3±20%	12.7	15.2	24	18	8.9
BSL1080-4R7M-A	4.7±20%	15.5	18.6	17.6	13.6	7.9
BSL1080-6R8M-A	6.8±20%	17.0	20.4	15.6	12	7.5
BSL1080-100M-A	10±20%	20.4	24.5	12.9	9.8	6.7
BSL1080-150M-A	15±20%	24.9	29.9	10.8	8.4	6.1
BSL1080-220M-A	22±20%	50.7	60.8	8.1	6.5	3.8
BSL1080-330M-A	33±20%	62.4	74.8	7.1	5.6	3.7
BSL1080-470M-A	47±20%	84.4	101.3	6.2	4.7	3
BSL1080-680M-A	68±20%	122	146	4.8	3.7	2.8
BSL1080-820M-A	82±20%	131	157	4.3	3.3	2.6
BSL1080-101M-A	100±20%	166	199	4.1	3.2	2.3
BSL1080-151M-A	150±20%	285	342	3.4	2.6	1.8
BSL1080-221M-A	220±20%	348	418	2.9	2.1	1.5
BSL1080-331M-A	330±20%	619	742	2.2	1.7	1.1
BSL1080-471M-A	470±20%	760	912	1.9	1.5	1
BSL1080-681M-A	680±20%	933	1,120	1.6	1.2	1
BSL1080-821M-A	820±20%	1,033	1,240	1.5	1.1	0.9
BSL1080-102M-A	1,000±20%	1,620	1,944	1.3	1	0.7

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause L0 to drop approximately 40 %
- c) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 500
- * Box : 2,000

TSL7345-SERIES-A



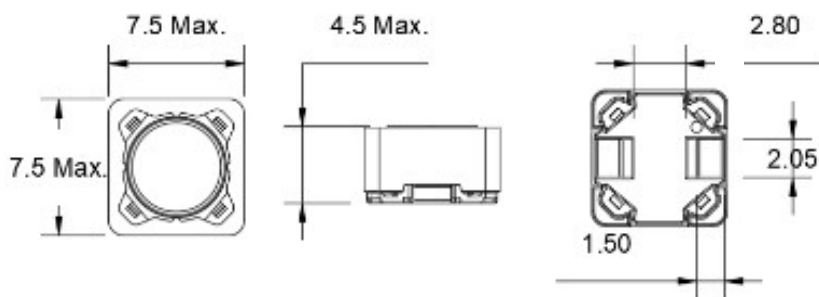
Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

Environmental data

- Operating temperature range : -50℃ ~ +165℃(component)
- Storage conditions (packaged) : -25℃ ~ +40℃, ≤75% RH
- Complies with AEC-Q200 standard

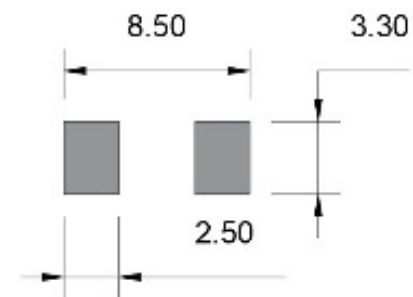
Dimensions [Unit : mm]



Picture



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance (uH) 100kHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) 25 °C a)	Saturation Current DC(A) 125 °C b)	Heating Rating Current DC(A) c)
		TYP.	MAX.	TYP.	TYP.	TYP.
TSL7345-3R3M-A	3.3±20%	16.5	20	5.4	4.9	4.1
TSL7345-4R7M-A	4.7±20%	22	28	4.3	4.1	3.4
TSL7345-6R8M-A	6.8±20%	32	38.4	3.7	3.5	2.93
TSL7345-100M-A	10±20%	42	50.4	3.05	2.7	2.57
TSL7345-150M-A	15±20%	73	87.6	2.4	2.2	2.1
TSL7345-220M-A	22±20%	95	114	2	1.8	1.7
TSL7345-330M-A	33±20%	150	180	1.65	1.5	1.38
TSL7345-470M-A	47±20%	218	261.6	1.4	1.3	1.15
TSL7345-680M-A	68±20%	275	330	1.2	1.1	1
TSL7345-101M-A	100±20%	400	480	1	0.85	0.83

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause L0 to drop approximately 40 %
- c) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 1,000
- * Box : 5,000

TSL1280-SERIES-A



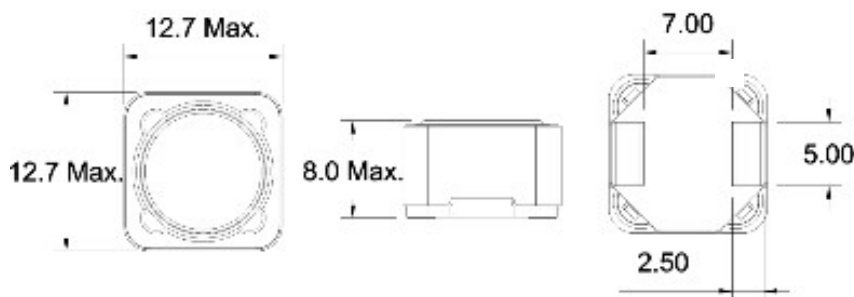
Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

Environmental data

- Operating temperature range : -50℃ ~ +165℃(component)
- Storage conditions (packaged) : -25℃ ~ +40℃, ≤75% RH
- Complies with AEC-Q200 standard

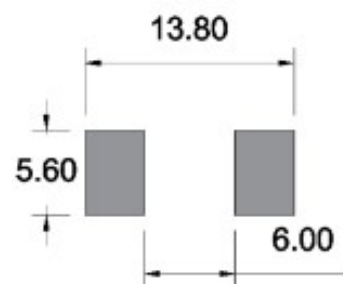
Dimensions [Unit : mm]



Picture



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance (uH) 100kHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) 25 °C a)	Saturation Current DC(A) 125 °C b)	Heating Rating Current DC(A) c)
		TYP.	MAX.	TYP.	TYP.	TYP.
TSL1280-3R3M-A	3.3	8.5	10.4	25.6	19.2	11
TSL1280-4R7M-A	4.7	9.5	11.4	20.9	15.6	9.5
TSL1280-6R8M-A	6.8	15	18	15.2	11.4	8.4
TSL1280-100M-A	10	17.5	21	13	9.7	7.7
TSL1280-150M-A	15	26.5	32	11.6	8.7	6.3
TSL1280-220M-A	22	47	56.4	8.2	6.1	4.6
TSL1280-330M-A	33	60	72	7.1	5.3	4
TSL1280-470M-A	47	85	102	5.7	4.2	3.6
TSL1280-680M-A	68	115	138	4.9	3.7	2.8
TSL1280-101M-A	100	150	180	3.8	2.9	2.5
TSL1280-151M-A	150	255	306	3.5	2.6	1.9
TSL1280-221M-A	220	380	456	3.1	2.3	1.5
TSL1280-331M-A	330	592	710	2.3	1.7	1.1
TSL1280-471M-A	470	855	1,026	1.9	1.4	1
TSL1280-681M-A	680	1,020	1,124	1.7	1.2	0.95

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause L0 to drop approximately 40 %
- c) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 500
- * Box : 2,000

BSH1590-SERIES-A



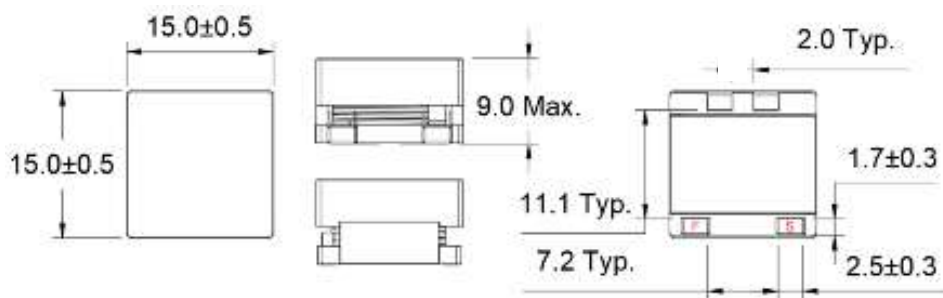
Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

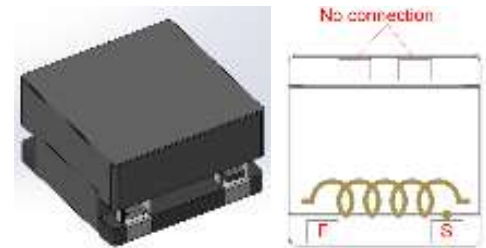
Environmental data

- Operating temperature range : -50℃ ~ +150℃(component)
- Storage conditions (packaged) : -25℃ ~ +40℃, ≤75% RH
- Complies with AEC-Q200 standard

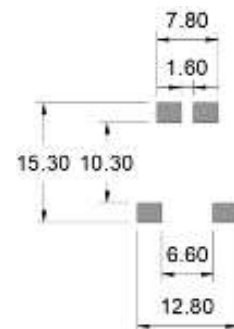
Dimensions [Unit : mm]



Picture



Land Pattern [Unit : mm]



Specifications

Part No.	L0 Inductance (uH) 100kHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) 25 °C a)		Saturation Current DC(A) 150 °C b)		Heating Rating Current DC(A) c)	
		TYP.	MAX.	TYP.	MAX.	TYP.	MAX.	TYP.	MAX.
BSH1590-1R5M-A	1.5±20%	2.2	2.6	33	26.4	26	20.8	21.8	18.2
BSH1590-2R2M-A	2.2±20%	2.7	3.2	30	24	21.8	17.4	19.6	16.4
BSH1590-3R3M-A	3.3±20%	3.7	4.4	25	20	17	13.6	17	14.2
BSH1590-4R7M-A	4.7±20%	4.6	5.5	20	16	15.4	12.3	13.2	11
BSH1590-6R8M-A	6.8±20%	6.8	8.1	17	13.6	11.4	9.1	9.9	8.3
BSH1590-100M-A	10.0±20%	10.4	12.4	15	12	10.6	8.5	9.2	7.7
BSH1590-150M-A	15.0±20%	14	16.8	12	9.6	8.2	6.7	8.5	7
BSH1590-220M-A	22.0±20%	25.9	31	9.6	7.7	7.3	5.8	6.6	5.5
BSH1590-330M-A	33.0±20%	31	37.2	7.6	6	5.5	4.4	5.7	4.8
BSH1590-470M-A	47.0±20%	47	56.4	6.4	5.1	4.5	3.6	5.1	4.3

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause L0 to drop approximately 40 %
- c) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

- * Reel : 300
- * Box : 1,200

CMFP4532-SERIES



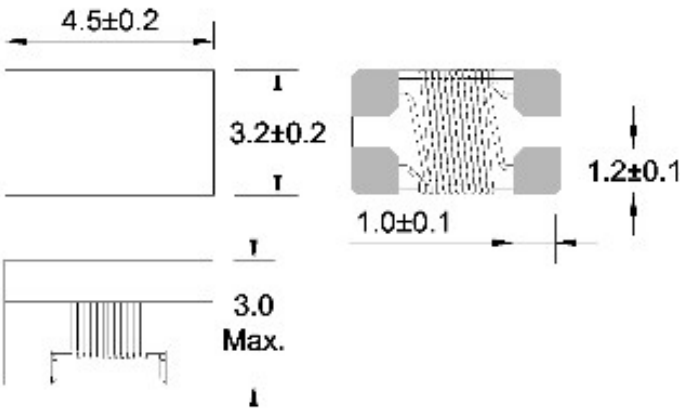
Applications

- DC/DC Converter
- Power supply systems
- Various electronic devices
- DC low voltage power lines
- Multimedia devices
- Safety applications, etc.

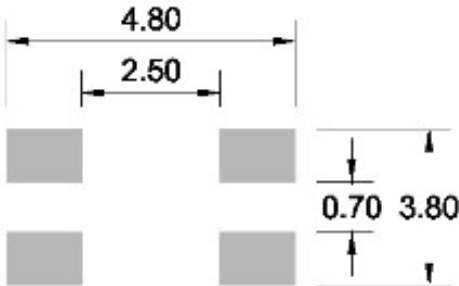
Environmental data

- Operating temperature range : -40℃ ~ +125℃(component)
- Storage conditions (packaged) : -25℃ ~ +40℃, ≤75% RH
- Complies with AEC-Q200 standard

Dimensions [Unit : mm]



Land Pattern [Unit : mm]



Specifications

Part No.	Common mode impedance(Ω) 100MHz	DCR (mΩ)	Heating Rating Current DC(A) a)	Insulation resistance (MΩ)	Rated voltage (Vdc)
		MAX.	MAX.	MIN.	MAX.
CMFP4532-800	80±25%	50	3	10	50
CMFP4532-900	90±25%	50	3	10	50
CMFP4532-121	120±25%	50	3	10	50
CMFP4532-201	200±25%	100	1.5	10	50
CMFP4532-601	600±25%	240	1.5	10	50
CMFP4532-801	800±25%	240	1	10	50

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause an approximate ΔT of 40 °C

CMFP4532H-SERIES



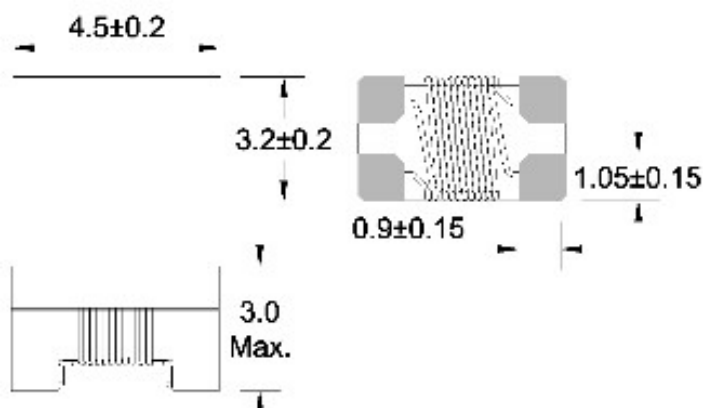
Applications

- DC/DC Converter
- Power supply systems
- Various electronic devices
- DC low voltage power lines
- Multimedia devices
- Safety applications, etc.

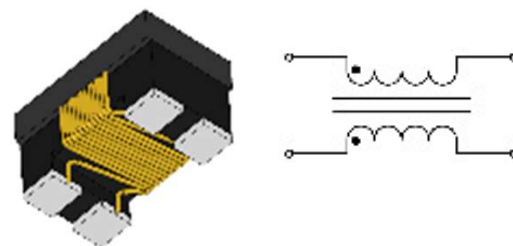
Environmental data

- Operating temperature range : -40°C ~ +125°C(component)
- Storage conditions (packaged) : -25°C ~ +40°C, ≤75% RH
- Complies with AEC-Q200 standard

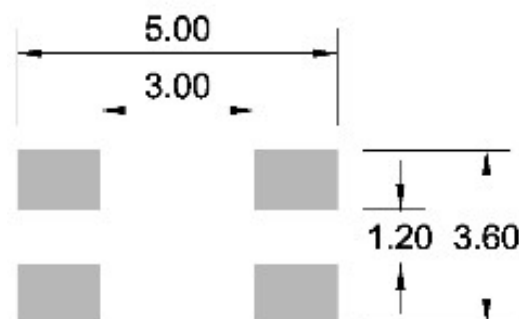
Dimensions [Unit : mm]



Picture



Land Pattern [Unit : mm]



Specifications

Part No.	Common mode impedance(Ω) 100MHz		DCR (mΩ)	Heating Rating Current DC(A) a)	Insulation resistance (MΩ)	Rated voltage (Vdc)
	MIN.	TYP.	MAX.	MAX.	MIN.	MAX.
CMFP4532H-900	68	90	50	4	10	50
CMFP4532H-231	173	230	50	3.5	10	50
CMFP4532H-421	300	420	55	3.2	10	50
CMFP4532H-601	450	600	60	2.5	10	50
CMFP4532H-901	650	900	70	2.3	10	50
CMFP4532H-142	1,000	1,400	100	2	10	50
CMFP4532H-282	2,100	2,800	350	0.9	10	50

Notes

* All test data is referenced to 25 °C ambient

a) DC current (A) that will cause an approximate ΔT of 40 °C

CMFP7060-SERIES



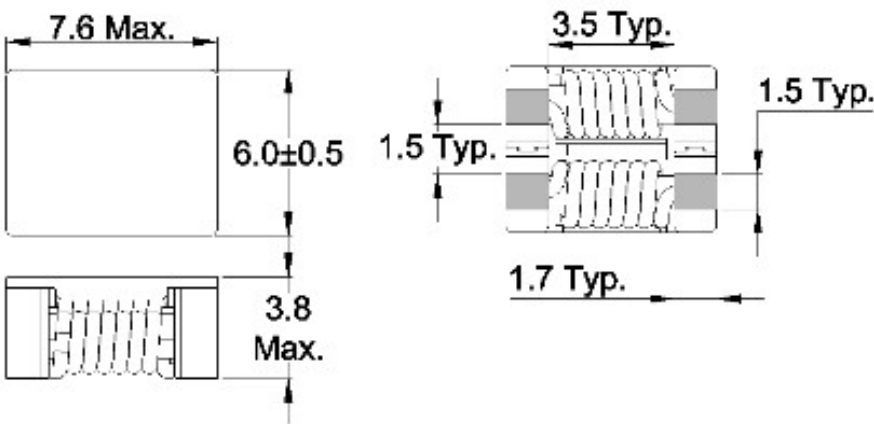
Applications

- DC/DC Converter
- Power supply systems
- Various electronic devices
- DC low voltage power lines
- Multimedia devices
- Safety applications, etc.

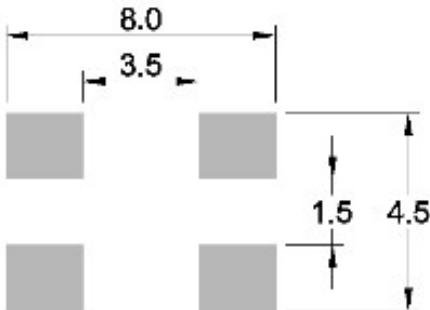
Environmental data

- Operating temperature range : -40℃ ~ +125℃(component)
- Storage conditions (packaged) : -25℃ ~ +40℃, ≤75% RH
- Complies with AEC-Q200 standard

Dimensions [Unit : mm]



Land Pattern [Unit : mm]



Specifications

Part No.	Common mode impedance(Ω) 100MHz		DCR (mΩ) [1Line]	Heating Rating Current DC(A) a)	Insulation resistance (MΩ)	Rated voltage (Vdc)
	MIN.	TYP.	MAX.	MAX.	MIN.	MAX.
CMFP7060-400	40	70	5	15	10	80
CMFP7060-101	100	140	10	9	10	80
CMFP7060-301	225	300	10	5	10	80
CMFP7060-501	275	450	10	5	10	80
CMFP7060-701	500	700	15	4	10	80
CMFP7060-102	800	1,020	17	3	10	80
CMFP7060-132	910	1,300	21	2.5	10	80

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause an approximate ΔT of 40 °C

CMFP9070-SERIES



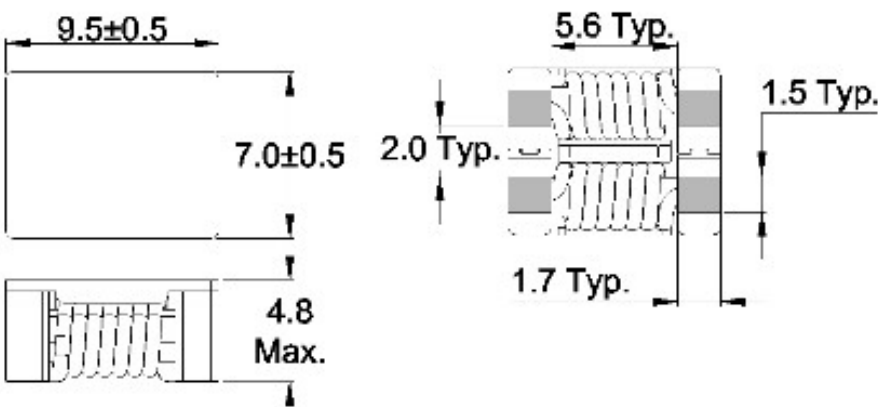
Applications

- DC/DC Converter
- Power supply systems
- Various electronic devices
- DC low voltage power lines
- Multimedia devices
- Safety applications, etc.

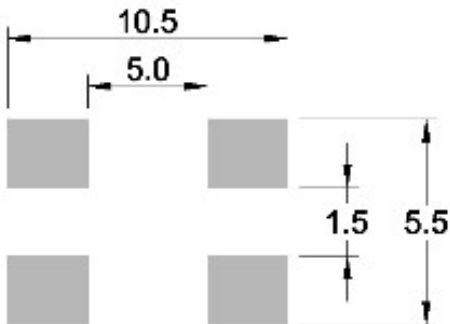
Environmental data

- Operating temperature range : -40℃ ~ +125℃(component)
- Storage conditions (packaged) : -25℃ ~ +40℃, ≤75% RH
- Complies with AEC-Q200 standard

Dimensions [Unit : mm]



Land Pattern [Unit : mm]



Specifications

Part No.	Common mode impedance(Ω) 100MHz		DCR (mΩ) [1Line]	Heating Rating Current DC(A) a)	Insulation resistance (MΩ)	Rated voltage (Vdc)
	MIN.	TYP.	MAX.	MAX.	MIN.	MAX.
CMFP9070-301	225	300	6	6	10	80
CMFP9070-501	450	600	8	5.5	10	80
CMFP9070-701	500	700	10	5	10	80
CMFP9070-102	750	1,000	13	4	10	80
CMFP9070-152	1,100	1,500	18	3.5	10	80
CMFP9070-222	1,700	2,200	60	2.5	10	80
CMFP9070-302	2,500	3,000	80	2	10	80

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause an approximate ΔT of 40 °C

CMFP120110-SERIES



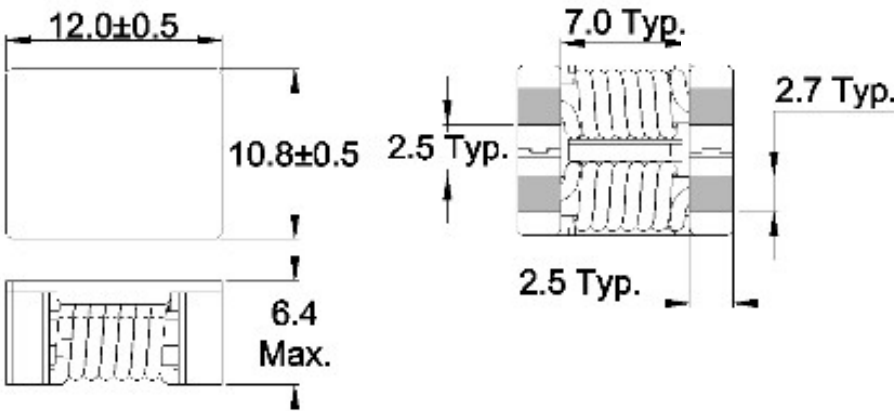
Applications

- DC/DC Converter
- Power supply systems
- Various electronic devices
- DC low voltage power lines
- Multimedia devices
- Safety applications, etc.

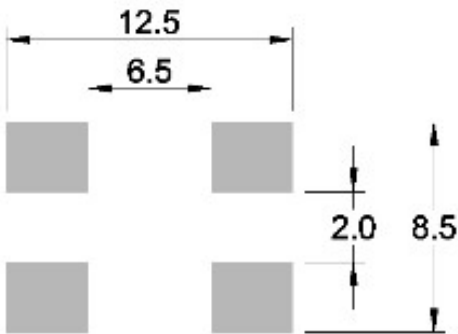
Environmental data

- Operating temperature range : -40℃ ~ +125℃(component)
- Storage conditions (packaged) : -25℃ ~ +40℃, ≤75% RH
- Complies with AEC-Q200 standard

Dimensions [Unit : mm]



Land Pattern [Unit : mm]



Specifications

Part No.	Common mode impedance(Ω) 100MHz		DCR (mΩ) [1Line]	Heating Rating Current DC(A) a)	Insulation resistance (MΩ)	Rated voltage (Vdc)
	MIN.	TYP.	MAX.	MAX.	MIN.	MAX.
CMFP120110-501	300	500	5.5	8	10	125
CMFP120110-701	500	700	6	8	10	125
CMFP120110-102	750	1,000	14	6	10	125

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause an approximate ΔT of 40 °C

CMFS2012-SERIES



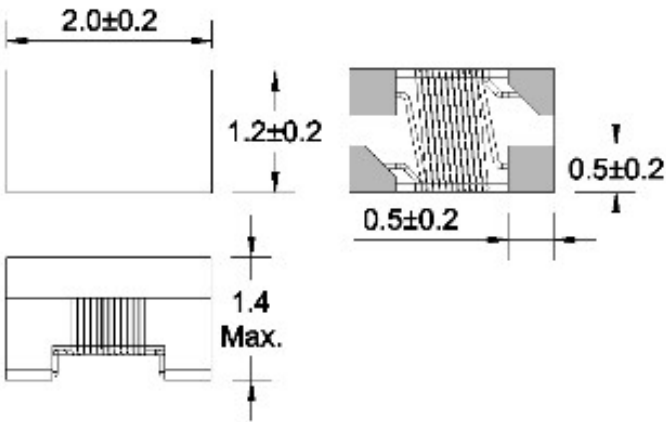
Applications

- DC/DC Converter
- Power supply systems
- Various electronic devices
- DC low voltage power lines
- Multimedia devices
- Safety applications, etc.

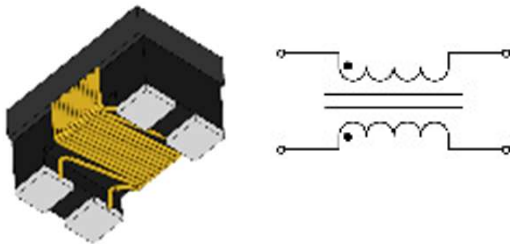
Environmental data

- Operating temperature range : -40℃ ~ +125℃(component)
- Storage conditions (packaged) : -25℃ ~ +40℃, ≤75% RH
- Complies with AEC-Q200 standard

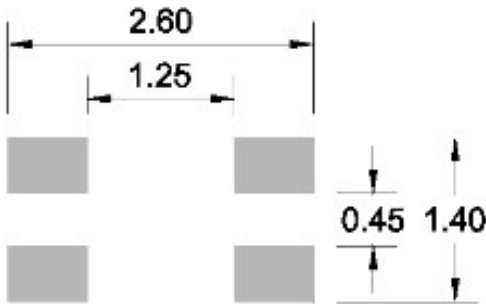
Dimensions [Unit : mm]



Picture



Land Pattern [Unit : mm]



Specifications

Part No.	Common mode impedance(Ω) 100MHz	DCR (m Ω)	Heating Rating Current DC(A) a)	Insulation resistance (M Ω)	Rated voltage (Vdc)
		MAX.	MAX.	MIN.	MAX.
CMFS2012-670	$67 \pm 25\%$	250	0.4	10	50
CMFS2012-750	$75 \pm 25\%$	250	0.36	10	50
CMFS2012-900	$90 \pm 25\%$	300	0.35	10	50
CMFS2012-121	$120 \pm 25\%$	300	0.35	10	50
CMFS2012-801	$800 \pm 25\%$	880	0.3	10	50

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause an approximate ΔT of 40 °C

CMFS3225-SERIES



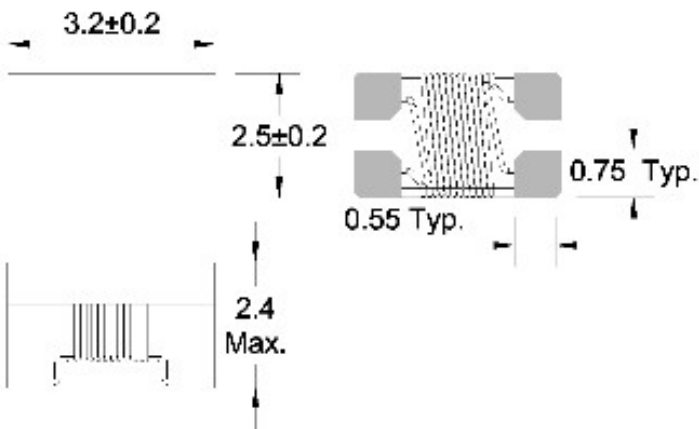
Applications

- DC/DC Converter
- Power supply systems
- Various electronic devices
- DC low voltage power lines
- Multimedia devices
- Safety applications, etc.

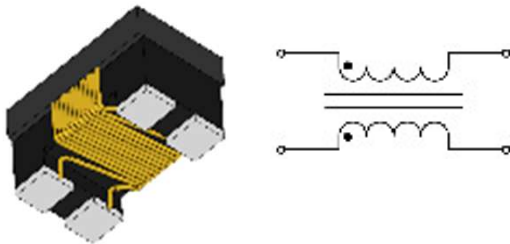
Environmental data

- Operating temperature range : -40℃ ~ +125℃(component)
- Storage conditions (packaged) : -25℃ ~ +40℃, ≤75% RH
- Complies with AEC-Q200 standard

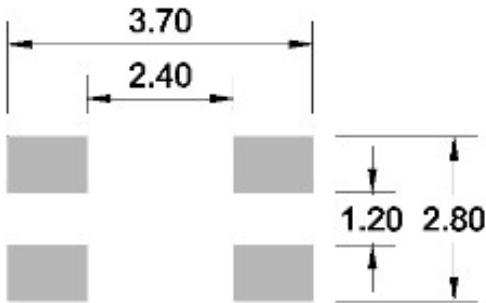
Dimensions [Unit : mm]



Picture



Land Pattern [Unit : mm]



Specifications

Part No.	Common mode impedance(Ω) 10MHz		Inductance (uH) [100KHz, 1V]	DCR (mΩ)	Heating Rating Current DC(A) a)	Insulation resistance (MΩ)	Rated voltage (Vdc)
	MIN.	TYP.	+50%, -30%	MAX.	MAX.	MIN.	MAX.
CMFS3225-110	300	505	11	400	0.3	10	50
CMFS3225-220	500	950	22	500	0.25	10	50
CMFS3225-510	1,000	2,200	51	700	0.2	10	50
CMFS3225-101	2,200	4,900	100	1,500	0.15	10	50

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause an approximate ΔT of 40 °C

CMFS4532-SERIES



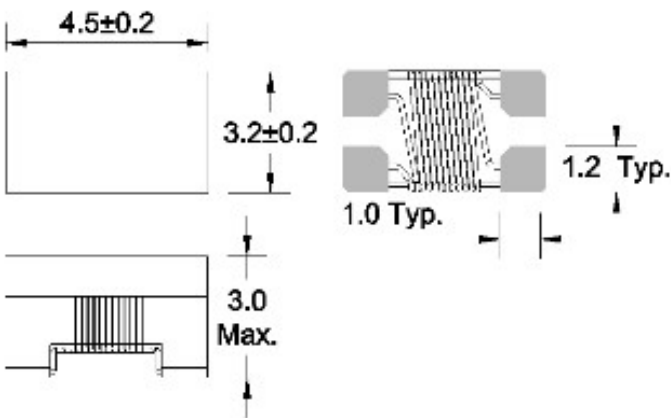
Applications

- DC/DC Converter
- Power supply systems
- Various electronic devices
- DC low voltage power lines
- Multimedia devices
- Safety applications, etc.

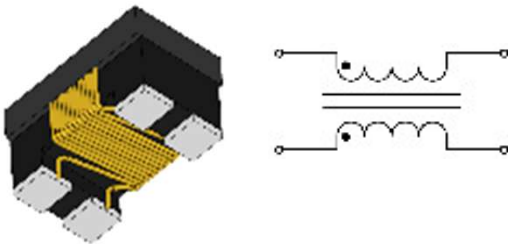
Environmental data

- Operating temperature range : -40℃ ~ +125℃(component)
- Storage conditions (packaged) : -25℃ ~ +40℃, ≤75% RH
- Complies with AEC-Q200 standard

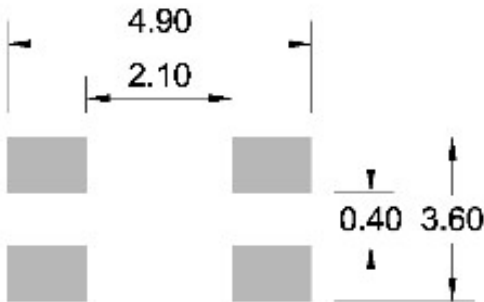
Dimensions [Unit : mm]



Picture



Land Pattern [Unit : mm]



Specifications

Part No.	Common mode impedance(Ω) 10MHz		Inductance (μ H) [100KHz, 1V]	DCR ($m\Omega$)	Heating Rating Current DC(A) a)	Insulation resistance ($M\Omega$)	Rated voltage (Vdc)
	MIN.	TYP.	+50%, -30%	MAX.	MAX.	MIN.	MAX.
CMFS4532-110	300	650	11	600	0.28	10	50
CMFS4532-220	600	1,000	22	1,000	0.2	10	50
CMFS4532-510	1,000	2,900	51	1,000	0.28	10	50
CMFS4532-101	2,000	4,800	100	2,000	0.15	10	50

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause an approximate ΔT of 40 °C



CF-SERIES

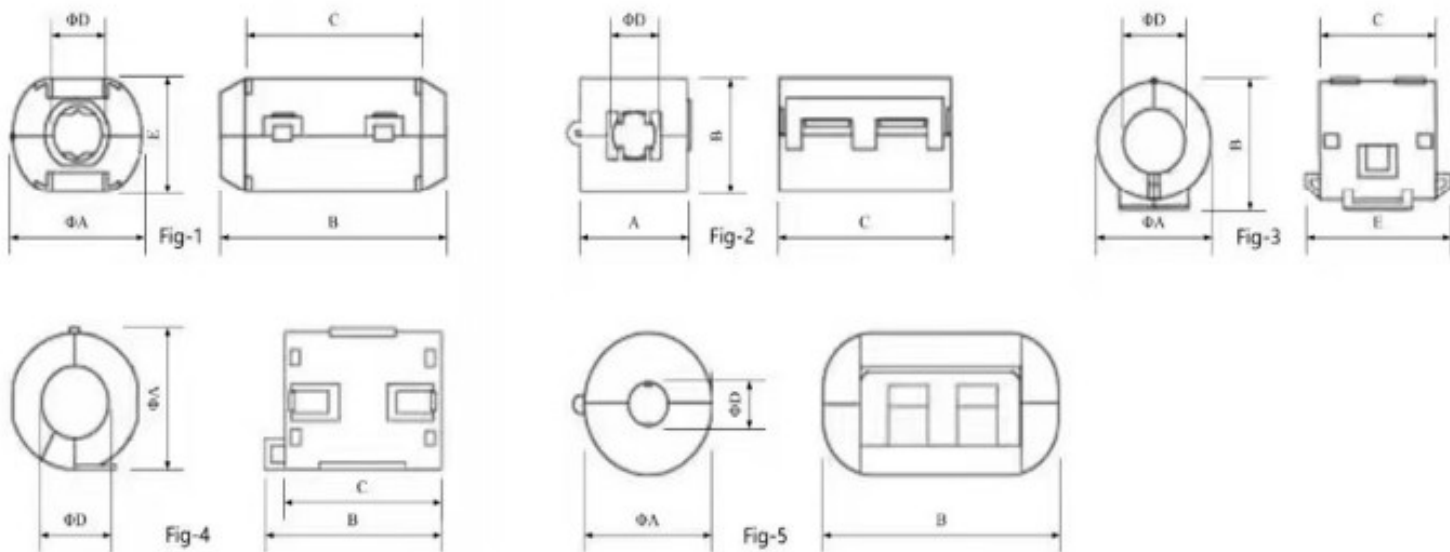
Applications

- Perfect for applications with varying cable diameter
- Suppression of electronic ballasts in the lighting industry
- Reusable thanks star-key technology, ideal for testing and measuring purposes in EMC laboratories

Environmental data

- Operating temperature range : -25°C ~ +105°C
- Storage conditions (packaged) : -25°C ~ +40°C, ≤75% RH
- Complies with AEC-Q200 standard

Dimensions [Unit : mm]



Specifications

P-N	Fig	Dimensions(mm)					Shape	Impedance(Ω) MIN.	
		ØA	B	C	ØD	E		25MHz	100MHz
CFNC13-5-25.5	1	13.0±1.0	25.5±1.0	20.0±1.0	5.0±0.8	11.5±1.0	Circle	65	130
CFNC16-5-29.5	5	16.0±1.0	29.5±1.0	-	5.0±0.8	-	Circle	55	150
CFNS17.5-6.5-32.5	2	17.5±1.0	19.5±1.0	32.5±1.0	6.5±0.8	-	Square	100	260
CFNC15.5-7-18	4	15.5±1.0	22.0±1.0	18.0±1.0	7.0±0.8	-	Circle	50	115
CFNC16.5-7-30	1	16.5±1.0	30.0±1.0	23.0±1.0	7.0±0.8	15.0±1.0	Circle	70	130
CFNC19.5-9-35	1	19.5±1.0	35.0±1.0	28.0±1.0	9.0±0.8	18.0±1.0	Circle	80	135
CFNS22-10-33	2	22.0±1.0	23.5±1.0	33.0±1.0	10.0±0.8	-	Square	70	170
CFNC20.5-11-32	4	20.5±1.0	36.0±1.0	32.0±1.0	11.0±0.8	-	Circle	55	110
CFNS29-13-32	2	29.0±1.0	30.0±1.0	32.0±1.0	13.0±0.8	-	Square	110	240
CFNC30-13-34	4	30.0±1.0	38.5±1.0	34.0±1.0	13.0±0.8	-	Circle	90	150
CFNC23.5-13-36	1	23.5±1.0	36.0±1.0	30.0±1.0	13.0±0.8	22.2±1.0	Circle	40	70
CFNC19.5-8-17	3	19.5±1.0	22.5±1.0	17.0±1.0	8.0±0.8	23.0±1.0	Circle	45	90
CFNC29-15-15	3	29.0±1.0	33.0±1.0	15.0±1.0	14.0±0.8	21.0±1.0	Circle	30	70
CFMC17-6.15-36	5	17.0±1.0	36.0±1.0	-	6.15±0.8	-	Circle	142	235
CFMC20-6.6-39.5	5	20.0±1.0	39.5±1.0	-	6.6±0.8	-	Circle	151	260
CFMC23.5-9.5-39.5	5	23.5±1.0	39.5±1.0	-	9.5±0.8	-	Circle	121	202
CFMC32.5-12.95-39.5	5	32.5±1.0	39.5±1.0	-	12.95±0.8	-	Circle	132	220

Notes

- * All test data is referenced to 25 °C ambient
- * Test conditions : Ø0.65 copper wire 1Ts





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