SPMXX12-XX15-LR-KIT Power Inductor Sample Kit

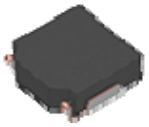
Contains case sizes: 3, 4, & 5mm with component heights of 1.2 and 1.5mm

Wirewound Metal Inductors for Power Circuit Applications

Metal Core

Wire Wound

Shielded



TDK's SPM-LR series power inductors are magnetically shielded, wirewound inductors designed for use in power circuits. Their low-profile makes them ideal for use in applications where height is restricted. The SPM-LR series has low inductance variance in high-temperature environments with good DC superimposition characteristics, and achieves large current, low Rdc, and compactness compared to ferrite wound type inductors. A metallic magnetic material is used, and the structure has an integrated molded coil, so hum noise is lower with the SPM-LR series inductors than with core adhesive coils. The SPM-LR series also has a redesigned terminal construction, based mainly on material change, and has a DCR improvement anywhere from 4-50%, depending on case size and inductance value, as compared with previous SPM series.



Features

- Magnetically shielded, wirewound metal inductor
- Low-profile
- Large current and low Rdc compared to ferrite wound type inductors
- Low inductance variance in high-temperature environments with good DC superimposition characteristics
- Operating and storage temperature range of –40 to +125°C

Applications

- Tablet terminals, laptop computers, HDDs, servers, VRMs, compact power supply modules, etc.

Sample Kit Information

Series	Size [mm]	Thickness [mm]	Inductance [µH] ±20%	Saturation Current [A] Max.
SPM3012-LR	3.2 x 3.0	1.2	0.47 to 4.7µH	7.3 to 2.4A
SPM3015-LR		1.5	1.5 to 4.7µH	4.5 to 3.0A
SPM4012-LR	4.4 x 4.1	1.2	0.47 to 4.7µH	8.5 to 3.3A
SPM4015-LR		1.5	0.47 to 10µH	13.3 to 1.9A
SPM5012-LR	5.4 x 5.1	1.2	2.2 to 10µH	5.8 to 2.2A
SPM5015-LR		1.5	1.5 to 10µH	6.0 to 2.7A

Kit contains 150 pieces total—5 pieces each of 30 values

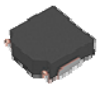
Digi-Key Part Number: 445-175124-KIT-ND

Rev. August 2017

SPMXX12-XX15-LR-KIT Power Inductor Sample Kit

Contains case sizes: 3, 4, & 5mm with component heights of 1.2 and 1.5mm

Wire Wound Inductors for Power Circuit Applications




Digi-Key Part Number	TDK Part Number	Part Number Description
445-175124-KIT-ND	SPM3012T-R47M-LR	3x3x1.2, Inductor, 0.47uH, 20%
	SPM3012T-1R0M-LR	3x3x1.2, Inductor, 1.0uH, 20%
	SPM3012T-1R5M-LR	3x3x1.2, Inductor, 1.5uH, 20%
	SPM3012T-2R2M-LR	3x3x1.2, Inductor, 2.2uH, 20%
	SPM3012T-4R7M-LR	3x3x1.2, Inductor, 4.7uH, 20%
	SPM4012T-R47M-LR	4x4x1.2, Inductor, 0.47uH, 20%
	SPM4012T-1R0M-LR	4x4x1.2, Inductor, 1.0uH, 20%
	SPM4012T-1R5M-LR	4x4x1.2, Inductor, 1.5uH, 20%
	SPM4012T-2R2M-LR	4x4x1.2, Inductor, 2.2uH, 20%
	SPM4012T-4R7M-LR	4x4x1.2, Inductor, 4.7uH, 20%
	SPM5012T-2R2M-LR	5x5x1.2, Inductor, 2.2uH, 20%
	SPM5012T-4R7M-LR	5x5x1.2, Inductor, 4.7uH, 20%
	SPM5012T-6R8M-LR	5x5x1.2, Inductor, 6.8uH, 20%
	SPM5012T-100M-LR	5x5x1.2, Inductor, 10uH, 20%
	SPM3015T-1R5M-LR	3x3x1.5, Inductor, 1.5uH, 20%
	SPM3015T-2R2M-LR	3x3x1.5, Inductor, 2.2uH, 20%
	SPM3015T-3R3M-LR	3x3x1.5, Inductor, 3.3uH, 20%
	SPM3015T-4R7M-LR	3x3x1.5, Inductor, 4.7uH, 20%
	SPM4015T-R47M-LR	4x4x1.5, Inductor, 0.47uH, 20%
	SPM4015T-1R5M-LR	4x4x1.5, Inductor, 1.5uH, 20%
	SPM4015T-2R2M-LR	4x4x1.5, Inductor, 2.2uH, 20%
	SPM4015T-3R3M-LR	4x4x1.5, Inductor, 3.3uH, 20%
	SPM4015T-4R7M-LR	4x4x1.5, Inductor, 4.7uH, 20%
	SPM4015T-6R8M-LR	4x4x1.5, Inductor, 6.8uH, 20%
	SPM4015T-100M-LR	4x4x1.5, Inductor, 10uH, 20%
	SPM5015T-1R5M-LR	5x5x1.5, Inductor, 1.5uH, 20%
	SPM5015T-2R2M-LR	5x5x1.5, Inductor, 2.2uH, 20%
	SPM5015T-4R7M-LR	5x5x1.5, Inductor, 4.7uH, 20%
	SPM5015T-6R8M-LR	5x5x1.5, Inductor, 6.8uH, 20%
	SPM5015T-100M-LR	5x5x1.5, Inductor, 10uH, 20%

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Global Electronic Components Distributor

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FG26X7R2J103KNT00 MLG1005S68NJTD25 C3216X7R2A224K115AE CGA2B3X7R1H473K050BD CGA4J2X8R1H104M125AA MLG1005S7N5JTD25 MMZ1608S102ATA00 SPM3012T-R47M-LR B32683A1223J000 B82496C3220G000 B82559A7682A024 C3225C0G2A683J230AA FHV-153AN FHV-5AN B82477D4333M900 MLG1005S0N8BTD25 B32654A6335K000 B82559A3292A025 FA24C0G1H333JNU00 MLG1005S2N4BTD25 MMZ1005S601ETD25 B32024A3105M000 B59886C0120A070 B65884E0012D001 B82422A1562J100 B84111A0000A030 MLF1608D68NMTA00 B88069X5600S102 CGA2B1C0G2A681J050BC CGA2B1X7R1C683M050BC