



**THE DATASHEET OF  
SPMXX12-XX15-LR-KIT**

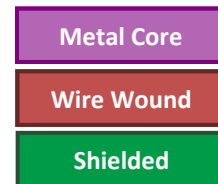
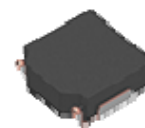


# SPMXX12-XX15-LR-KIT Power Inductor Sample Kit

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

## Wirewound Metal Inductors for Power Circuit Applications

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.
<a href="#">SPM3012-LR</a>	3.2 x 3.0	1.2	0.47 to 4.7μH	7.3 to 2.4A
<a href="#">SPM3015-LR</a>		1.5	1.5 to 4.7μH	4.5 to 3.0A
<a href="#">SPM4012-LR</a>	4.4 x 4.1	1.2	0.47 to 4.7μH	8.5 to 3.3A
<a href="#">SPM4015-LR</a>		1.5	0.47 to 10μH	13.3 to 1.9A
<a href="#">SPM5012-LR</a>	5.4 x 5.1	1.2	2.2 to 10μH	5.8 to 2.2A
<a href="#">SPM5015-LR</a>		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](#)



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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%

## Looking for pricing, stock, or lifecycle information?

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