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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

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# 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.



Metal Core

Wire Wound

Shielded



### 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](#)



# 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%