SPMXX20-LR-KIT Power Inductor Sample Kit

Contains case sizes: 3, 4, & 5mm with component height of 2.0mm max.

Wirewound Metal Inductors for Power Circuit Applications

Metal Core

Wire Wound

Shielded

TDK's SPM-LR series power inductors are magnetically shielded, wire wound 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, wire wound 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] Max.	Inductance [µH] ±20%	Saturation Current [A] Max.
SPM3020-LR	3.2 x 3.0	2.0	0.47 to 4.7µH	9.0 to 2.9A
SPM4020-LR	4.4 x 4.1		0.47 to 10µH	14.1 to 2.3A
SPM5020-LR	5.4 x 5.1		1.0 to 10µH	14.0 to 3.4A

Kit contains 70 pieces total—5 pieces each of 14 values

Digi-Key Part Number: SPMXX20-LR-KIT-ND

Rev. March 2018

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Digi-Key Part Number	TDK Part Number	Part Number Description
SPMXX20-LR-KIT-ND	SPM3020T-R47M-LR	3x3x2.0, Inductor, 0.47uH, 20%
	SPM3020T-1R0M-LR	3x3x2.0, Inductor, 1.0uH, 20%
	SPM3020T-3R3M-LR	3x3x2.0, Inductor, 3.3uH, 20%
	SPM3020T-4R7M-LR	3x3x2.0, Inductor, 4.7uH, 20%
	SPM4020T-1R0M-LR	4x4x2.0, Inductor, 1.0uH, 20%
	SPM4020T-2R2M-LR	4x4x2.0, Inductor, 2.2uH, 20%
	SPM4020T-3R3M-LR	4x4x2.0, Inductor, 3.3uH, 20%
	SPM4020T-4R7M-LR	4x4x2.0, Inductor, 4.7uH, 20%
	SPM4020T-6R8M-LR	4x4x2.0, Inductor, 6.8uH, 20%
	SPM5020T-1R0M-LR	5x5x2.0, Inductor, 1.0uH, 20%
	SPM5020T-1R5M-LR	5x5x2.0, Inductor, 1.5uH, 20%
	SPM5020T-3R3M-LR	5x5x2.0, Inductor, 3.3uH, 20%
	SPM5020T-4R7M-LR	5x5x2.0, Inductor, 4.7uH, 20%
	SPM5020T-100M-LR	5x5x2.0, Inductor, 10uH, 20%