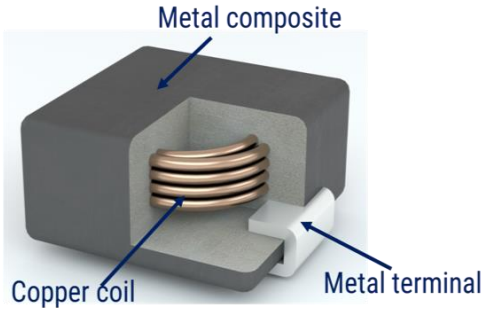
SMD Inductors

Metal Composite Power Inductors MPX

The KEMET MPX metal composite inductors are ideal for use in DC to DC switching power supplies, as power inductors as well as EMI filter inductors. The metal composite core has high saturation characteristics maintaining function in rush current mode and characterized by temperature stable inductance. Typical applications include consumer and commercial power applications such as high frequency DC- DC converters, such as wideband gap applications. PCs servers point of loads (POL), field programmable gate arrays (FPGA) and battery powered regulators.

Benefits:

- Metal composite powder
- Shielded construction, SMD configuration
- Inductance range from 0.10 to 47.00 µH
- Operating temperature up to +155°C
- Low acoustic noise
- Low magnetic flux leakage



MPX	Version	D0520	L	1R5
Series		Size Code	Inductor	Inductance Code µH
MPX	1	D0520 = 5x5x2.0 mm D0530 = 5x5x3.0 mm D0618 = 6x6x1.8 mm D0624 = 6x6x2.4 mm D0630 = 6x6x3.0 mm D0650 = 6x6x5.0 mm D0830 = 8x8x3.0 mm D0840 = 8x8x4.0 mm		The first two digits represent the inductance value. The third digit indicates the number of zeros to be added. R = decimal point Examples: 100 = 10.0µH R68 = 0.68 µH 1R5 = 1.50 µH

Item	Performance Characteristics
Operating Temperature	-55°C to +155°C (including self-temperature rise)
Rated Inductance Range	0.10 - 47.00 µH at 100 kHz, 1 mA
Inductance Tolerance	±20%
Rated DC Resistance Range	1.5 - 341.2 mΩ maximum
Rated Current Range	2.0 - 35.4 A