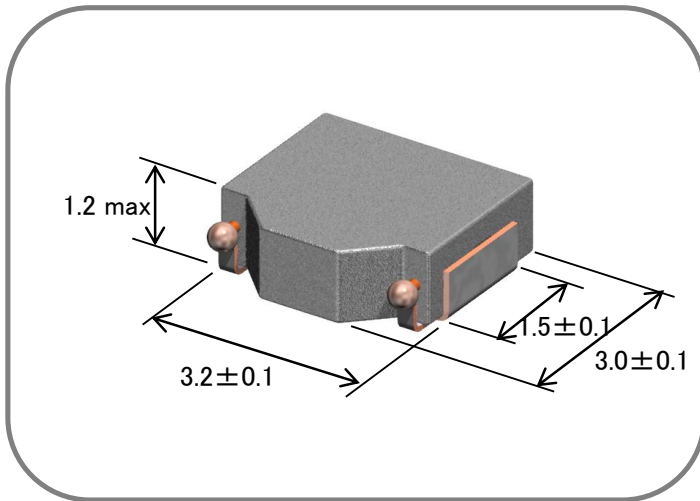


Component Image & Dimension



Features

- a) Small Footprint and Low Profile Design :
Footprint : 3.2 x 3.0 mm Typ.
Height : 1.2mm Max.
- b) High Power Handling Capability :
Small Copper Loss
Using Large Saturation Induction of Fe- based metals
- c) Wide Range Operating Temperature due to
High Curie Temperature of metal core
- d) Automatic Mounting in Tape&Reel Package.

Applications

Note Book & Mobile Computer, VRM,

Electrical Specification (Provisional value)

| TDK Identification | Inductance | | Test Freq. (kHz) | DC Resistance | | Rated DC Current | | |
|--------------------|------------|----------|------------------|---------------|--------------|------------------|----------------|----------------|
| | at 0A (uH) | Tol. (%) | | Spec. (m-Ohm) | Typ. (m-Ohm) | Idc 1 (A) max. | Idc 1 (A) typ. | Idc 2 (A) typ. |
| SPM3012T- 1R0M-CA | 1.0 | +/-20% | 100 | 65 max | 57 | 3.4 | 5.4 | 2.8 |
| SPM3012T- 1R5M-CA | 1.5 | +/-20% | 100 | 90 max | 77 | 2.8 | 4.7 | 2.5 |
| SPM3012T- 2R2M-CA | 2.2 | +/-20% | 100 | 115 max | 100 | 2.5 | 3.4 | 2.2 |
| SPM3012T- 3R3M-CA | 3.3 | +/-20% | 100 | 210 max | 183 | 1.8 | 2.8 | 1.5 |
| SPM3012T- 4R7M-CA | 4.7 | +/-20% | 100 | 270 max | 232 | 1.5 | 2.6 | 1.3 |

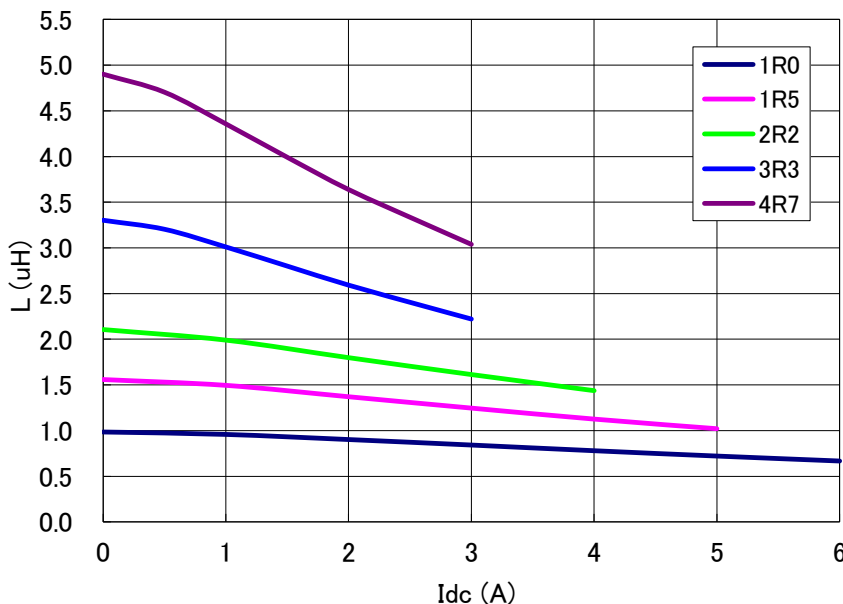
Note. Idc 1 : Based on the inductance change. (-30% Reduction from Nominal L Value)

Idc 2 : Based on the self temperature rise. (+40 deg typ.)

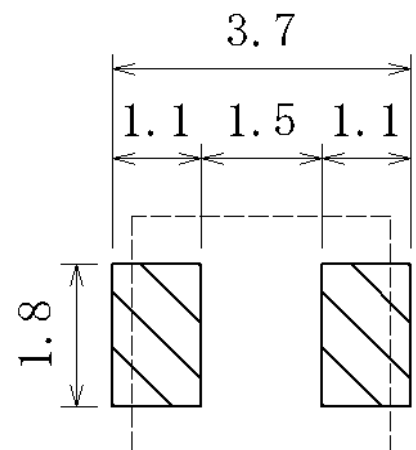
Operating Temperature Range: -40 °C ~ +125 °C (including self temperature rise)

Caution: Please contact our sales person when you consider organic solvent or aqueous cleaning.

Inductance vs. DC Superposition



Recommended pad layout



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

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[MLZ1608M150WTD25](#) [MLZ1608M3R3WTD25](#) [MLZ1608M3R3WT000](#) [MLZ1608M150WT000](#) [MLZ1608A1R5WT000](#)
[MLZ1608N1R5LT000](#) [B82432C1333K000](#) [PCMB053T-1R0MS](#) [PCMB053T-1R5MS](#) [PCMB104T-1R5MS](#) [CR32NP-100KC](#) [CR32NP-151KC](#) [CR32NP-180KC](#) [CR32NP-181KC](#) [CR32NP-1R5MC](#) [CR32NP-390KC](#) [CR32NP-3R9MC](#) [CR32NP-680KC](#) [CR32NP-820KC](#)
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