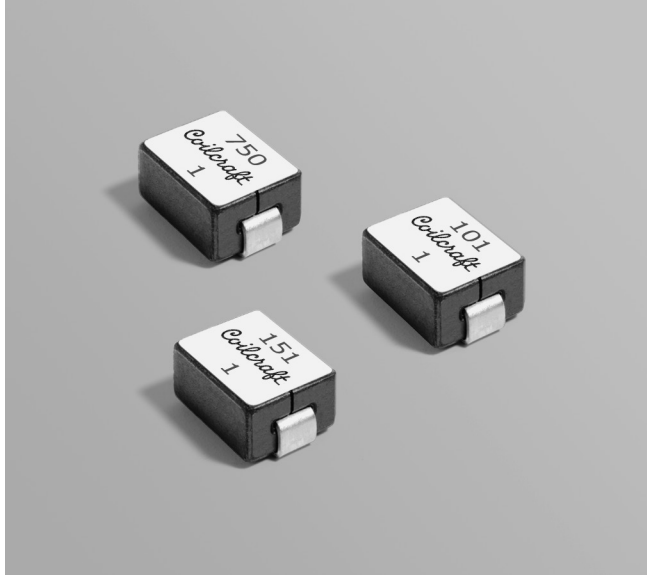




Shielded Power Inductors – SLC1049



- Designed for use in multi-phase VRM/VRD regulators and high current/high frequency DC/DC converters.
- Requires only 70 mm² of board space; can handle up to 61 A.

Core material Ferrite

Core and winding loss See www.coilcraft.com/coreloss

Terminations RoHS compliant matte tin over nickel over copper. Other terminations available at additional cost.

Weight 1.25 – 1.30 g

Ambient temperature –40°C to +85°C with Irms current, +85°C to +125°C with derated current

Storage temperature Component: –40°C to +125°C.
Tape and reel packaging: –40°C to +80°C

Resistance to soldering heat Max three 40 second reflows at +260°C, parts cooled to room temperature between cycles

Moisture Sensitivity Level (MSL) 1 (unlimited floor life at <30°C / 85% relative humidity)

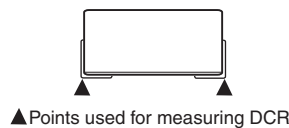
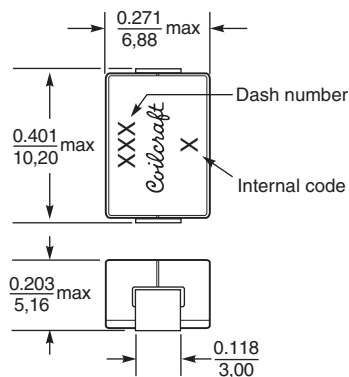
Failures in Time (FIT) / Mean Time Between Failures (MTBF)

38 per billion hours / 26,315,789 hours, calculated per Telcordia SR-332

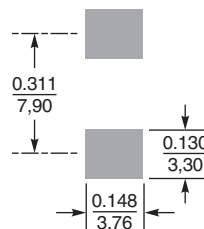
Packaging 250/7" reel; 1000/13" reel Plastic tape: 24 mm wide, 0.35 mm thick, 12 mm pocket spacing, 5.08 mm pocket depth

PCB washing Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See [Doc787_PCB_Washing.pdf](#).

Part number ¹	L ±20% ² (μH)	DCR (mOhms) ³ typ max	SRF typ ⁴ (MHz)	Isat ⁵ (A)	Irms ⁶ (A)
SLC1049-750ML_	0.075	0.230 0.246	200	61.0	43.0
SLC1049-101ML_	0.100	0.230 0.246	145	50.0	43.0
SLC1049-121ML_	0.125	0.230 0.246	140	37.0	43.0
SLC1049-151ML_	0.150	0.230 0.246	133	30.0	43.0
SLC1049-231ML_	0.230	0.230 0.246	70	25.5	43.0



Recommended Land Pattern



Dimensions are in inches
mm

- When ordering, please specify **termination** and **packaging** codes:

SLC1049-151MLC

Termination: L = RoHS compliant matte tin over nickel over copper.

Special order: T = RoHS tin-silver-copper (95.5/4/0.5) or S = non-RoHS tin-lead (63/37).

Packaging: C = 7" machine-ready reel. EIA-481 embossed plastic tape (250 per full reel).

B = Less than full reel. In tape, but not machine ready. To have a leader and trailer added (\$25 charge), use code letter C instead.

D = 13" machine-ready reel. EIA-481 embossed plastic tape (1000 per full reel). Factory order only, not stocked.

- Inductance tested at 100 kHz, 0.1 Vrms using an Agilent/HP 4263B LCR meter or equivalent.
 - DCR is measured on a micro-ohmmeter at points indicated in the dimensional diagram.
 - SRF measured with coils connected in series using an Agilent/HP 8753ES network analyzer or equivalent.
 - DC current at which the inductance drops 20% (typ) from its value without current.
 - Current that causes a 40°C temperature rise from 25°C ambient.
 - Electrical specifications at 25°C.
- Refer to Doc 362 "Soldering Surface Mount Components" before soldering.



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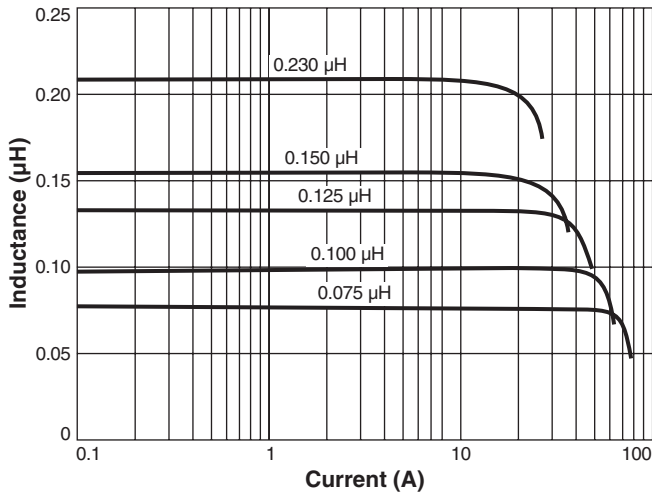
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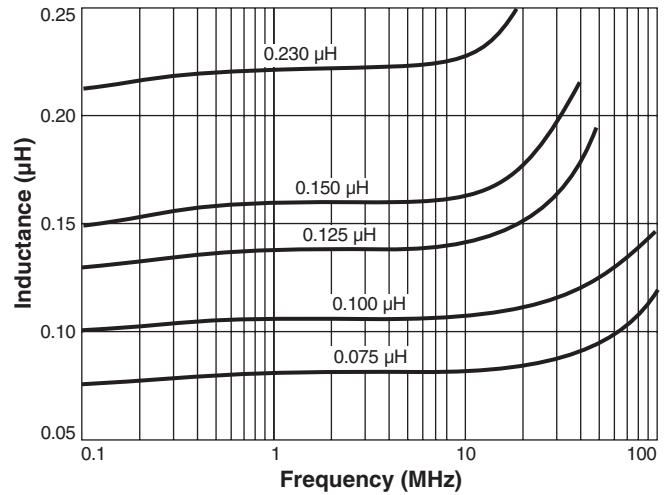


Shielded Power Inductors - SLC1049 Series

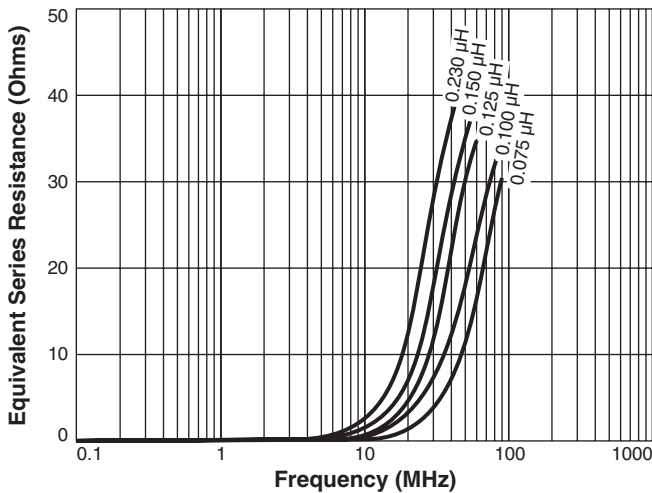
L vs Current



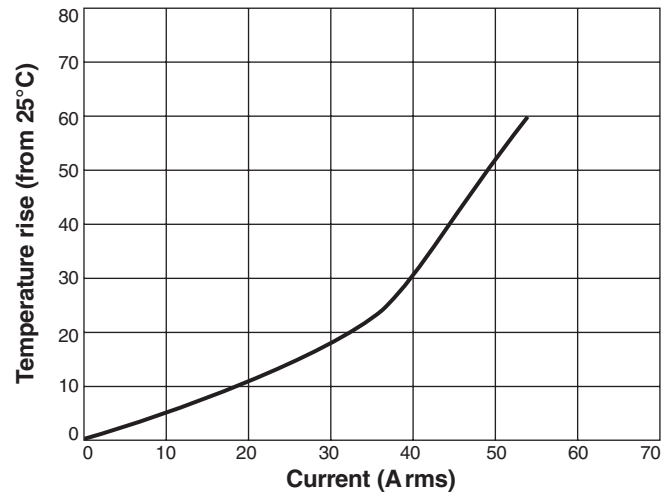
L vs Frequency



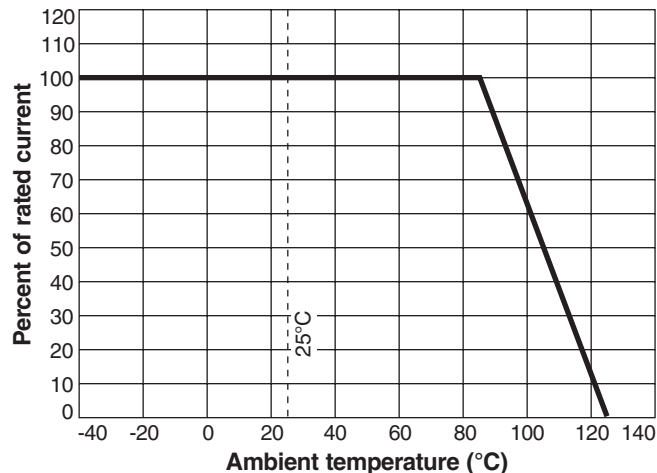
ESR vs Frequency



Typical Temperature Rise vs Current



Irms Derating



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<http://moschip.ru/get-element>

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