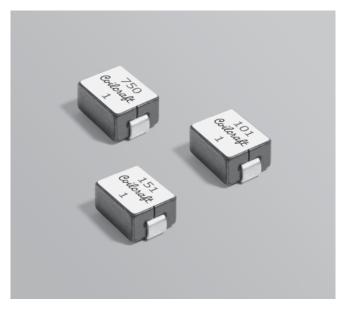
SMT Power Inductors - SLC1049 Series



- · Designed foruse 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

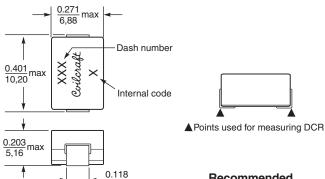
Ambient temperature -40°C to +85°C with Irms current, +85°C to +125°C with derated current

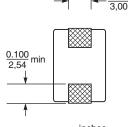
Storage temperature Component: -40°C to +125°C. Packaging: -55°C to +80°C

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)

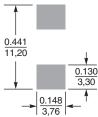
Mean Time Between Failures (MTBF) 26,315,789 hours Packaging 250/7" reel; 1000/13" reel Plastic tape: 24 mm wide, 0.35 mm thick, 12 mm pocket spacing, 5.08 mm pocket depth PCB washing Only pure water or alcohol recommended

Part number ¹	L ±20%² (µH)	DCR ±5% ³ (mOhms)	SRF typ ⁴ (MHz)	Isat⁵ (A)	Irms ⁶ (A)
SLC1049-750ML_	0.075	0.273	200	61.0	43.0
SLC1049-101ML_	0.100	0.273	145	50.0	43.0
SLC1049-121ML_	0.125	0.273	140	37.0	43.0
SLC1049-151ML_	0.150	0.273	133	30.0	43.0





Recommended Land Pattern



1. When ordering, please specify termination and packaging codes:

SLC1049-151K L C

- 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).
- C = 7" machine-ready reel. EIA-481 embossed plastic Packaging: 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
- 2. Inductance tested at 100 kHz, 0.1 Vrms using an Agilent/HP 4263B LCR meter or equivalent.
- 3. DCR is measured on a micro-ohmmeter at points indicated in the dimensional diagram.
- 4. SRF measured with coils connected in series using an Agilent/HP 8753ES network analyzer or equivalent.
- 5. DC current at which the inductance drops 20% (typ) from its value without current.
- 6. Current that causes a 40°C temperature rise from 25°C ambient.
- 7. Electrical specifications at 25°C.

See Qualification Standards section for environmental and test data. Refer to Doc 362 "Soldering Surface Mount Components" before soldering.

Dimensions are in inches

Coilcraft

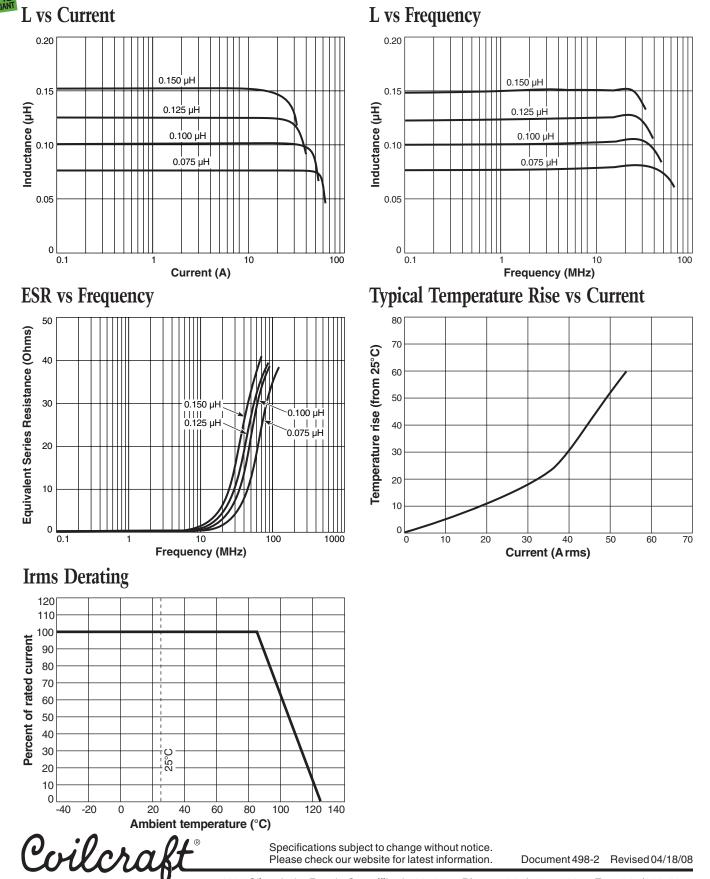
Specifications subject to change without notice. Please check our website for latest information.

Document 498-1 Revised 04/18/08

1102 Silver Lake Road Carv. Illinois 60013 Phone 847/639-6400 Fax 847/639-1469 E-mail info@coilcraft.com Web http://www.coilcraft.com



SMT Power Inductors - SLC1049 Series



1102 Silver Lake Road Cary, Illinois 60013 **Phone** 847/639-6400 **Fax** 847/639-1469 **E-mail** info@coilcraft.com **Web** http://www.coilcraft.com