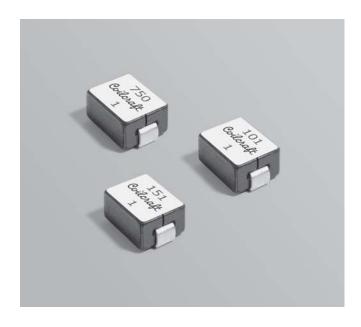


SMT Power Inductors - SLC1049 Series



•	Designed	foruse	in multi-ph	nase V	'RM/VRD	regulators	and
	high curre	nt/high	frequency	DC/D0	C converte	ers.	

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 $1.25 - 1.30 \, \text{g}$

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

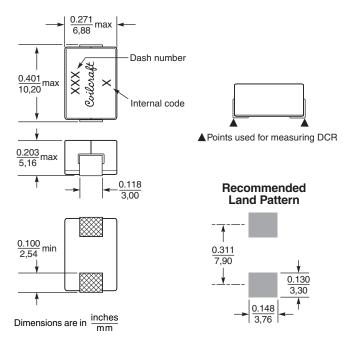
Storage temperature Component: -40°C to +125°C. Packaging: -40°C to +80°C

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 Only pure water or alcohol recommended

	L		SRF		
Part number ¹	±20% ² (µH)	DCR ±5% ³ (mOhms)	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



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).

- $\mathbf{B} = \text{Less than full reel. In tape, but not machine ready.}$ 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
- 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.

Refer to Doc 362 "Soldering Surface Mount Components" before soldering.

Coilcraft

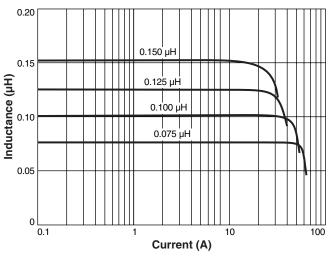
Specifications subject to change without notice. Please check our website for latest information.

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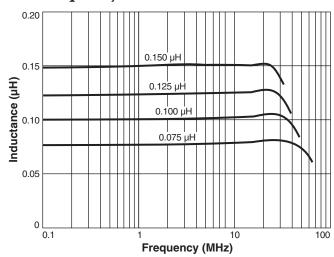


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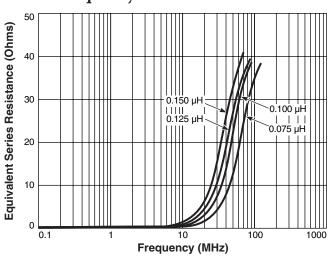
L vs Current



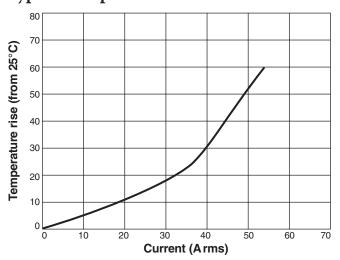
L vs Frequency



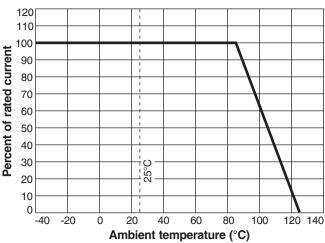
ESR vs Frequency



Typical Temperature Rise vs Current



Irms Derating



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