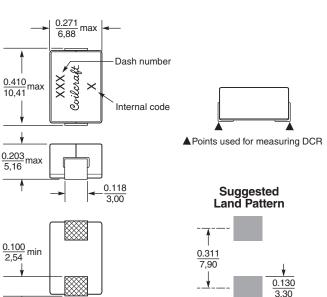
Shielded Power Inductors ST534PMM



	L ±20% ²	DCR (mOhms) ³		SRF typ ⁴	Isat ⁵	Irms ⁶
Part number ¹	(µH)	typ	max	(MHz)	(A)	(A)
ST534PMM750MLZ	0.075	0.230	0.246	200	61.0	43.0
ST534PMM101MLZ	0.100	0.230	0.246	145	50.0	43.0
ST534PMM121MLZ	0.125	0.230	0.246	140	37.0	43.0
ST534PMM151MLZ	0.150	0.230	0.246	133	30.0	43.0
ST534PMM231MLZ	0.230	0.230	0.246	70	25.5	43.0



- 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

Terminations 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

Maximum part temperature +125°C

Storage temperature Component: -55°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)

 $\begin{array}{ll} \textbf{Packaging} \ \ 250/7'' \ \ \text{reel} & \ \ \text{Plastic tape: 24 mm wide, 0.35 mm thick, 12} \\ \text{mm pocket spacing, 5.08 mm pocket depth} \\ \end{array}$

PCB washing Tested with pure water or alcohol only. For other solvents, see Doc787_PCB_Washing.pdf.

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

ST534PMM750MLZ

Termination: L = Matte tin over nickel over copper

Special order:

T = Tin-silver-copper (95.5/4/0.5) or

S = Tin-lead (63/37).

Testing: Z = Unscreened

H = Group A screening per Coilcraft CP-SA-10001

T = Screening per MIL-STD-981 U = Screening per EEE-INST-002 F = Screening per ESCC 3201

All screening performed to the document's latest revision

Custom screening also available

- 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.
- SRF measured with coils connected in series using an Agilent/HP 8753ES network analyzer or equivalent.
- DC current at 25°C that causes a 20% (typ) inductance drop from its value without current.
- Current that causes the specified temperature rise from 25°C ambient.
 This information is for reference only and does not represent absolute maximum ratings.
- 7. Electrical specifications at 25°C.

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



1102 Silver Lake Road Cary, IL 60013 Phone 800-981-0363

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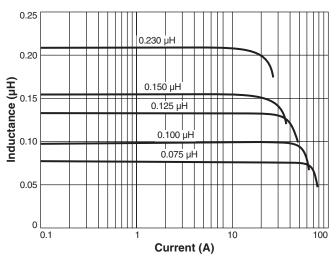
Fax 847-639-1508 Email cps@coilcraft.com www.coilcraft-cps.com Document ST498-1 Revised 05/31/17

This product may not be used in medical or high risk applications without prior Coilcraft approval. Specifications subject to change without notice. Please check our web site for latest information.

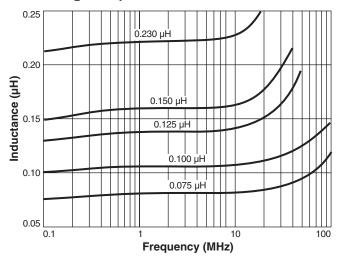
Dimensions are in inches

Shielded Power Inductors - ST534PMM Series

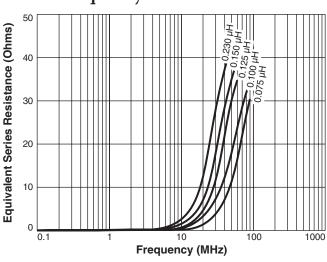
L vs Current



L vs Frequency



ESR vs Frequency



Typical Temperature Rise vs Current

