

High-Reliability Power Inductors MS534PMM



- 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 current up to 61 A.
- Tin-lead (Sn-Pb) terminations for the best possible board adhesion

Core material Ferrite

Terminations Tin-lead (63/37) over tin over nickel over copper.

Weight 1.25 – 1.30 g

Ambient temperature –55°C to +125°C with Irms current

Maximum part temperature +155°C (ambient + temp rise)

Storage temperature Component: –55°C to +155°C.

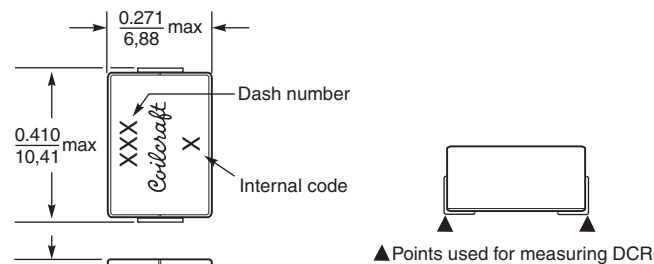
Tape and reel packaging: –40°C to +80°C

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

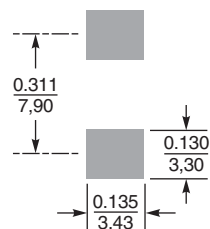
Moisture Sensitivity Level (MSL) 1 (unlimited floor life at <30°C / 85% relative humidity)

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

Part number ¹	L ±20% ² (μH)	DCR (mOhms) ³		SRF typ ⁴ (MHz)	Isat ⁵ (A)	Irms ⁶ (A)
		typ	max			
MS534PMM750MSZ	0.075	0.230	0.246	200	61.0	43.0
MS534PMM101MSZ	0.100	0.230	0.246	145	50.0	43.0
MS534PMM121MSZ	0.125	0.230	0.246	140	37.0	43.0
MS534PMM151MSZ	0.150	0.230	0.246	133	30.0	43.0
MS534PMM231MSZ	0.230	0.230	0.246	70	25.5	43.0



Suggested Land Pattern



Dimensions are in inches
mm

- When ordering, please specify **testing** code:

MS534PMM750MSZ

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.
 - 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 an inductance drop of 20% (typ) 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.
 - Electrical specifications at 25°C.
- Refer to Doc 362 "Soldering Surface Mount Components" before soldering.

Coilcraft CPS
CRITICAL PRODUCTS & SERVICES

© Coilcraft, Inc. 2018

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

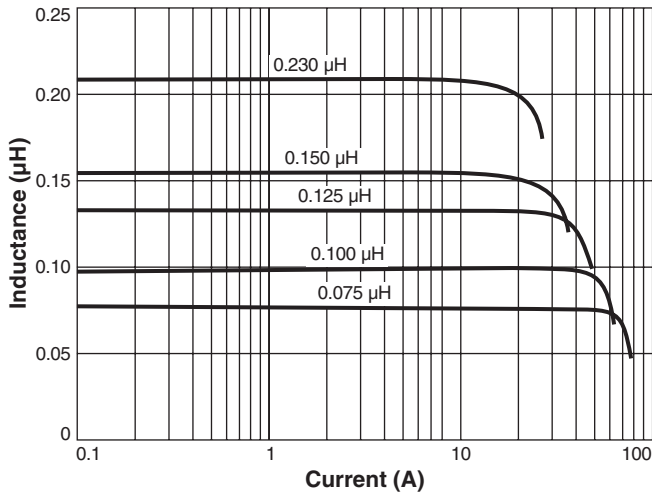
Fax 847-639-1508
Email cps@coilcraft.com
www.coilcraft-cps.com

Document MS498-1 Revised 02/20/18

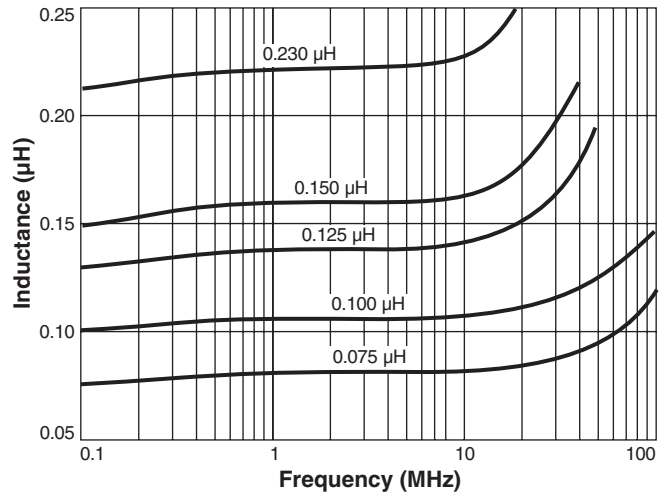
This product may not be used in medical or high risk applications without prior Coilcraft approval. Specifications subject to change without notice. Please check our web site for latest information.

Shielded Power Inductors – MS534PMM Series

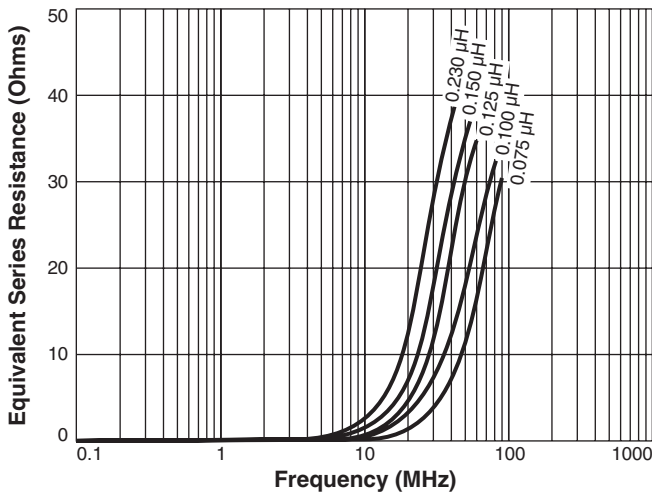
L vs Current



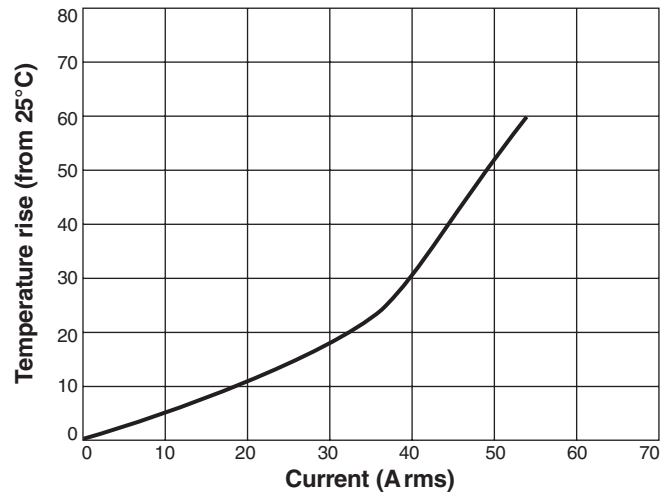
L vs Frequency



ESR vs Frequency



Typical Temperature Rise vs Current



CRITICAL PRODUCTS & SERVICES

© Coilcraft, Inc. 2018

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

Fax 847-639-1508
Email cps@coilcraft.com
www.coilcraft-cps.com

Document MS498-2 Revised 02/20/18

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.