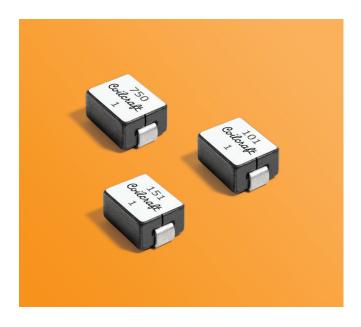
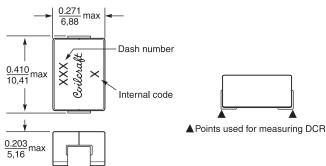
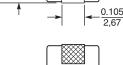
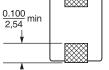
High-Reliability Power Inductors MS534PMM

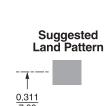


| | L ±20% ² | DCR (mOhms) ³ | | SRF ref ⁴ | Isat⁵ | Irms ⁶ |
|----------------------------|------------------------|-----------------------------|-------|-------------------------|-------|-------------------|
| Part number ^{1,7} | (µH) | typ | max | (MHz) | (A) | (A) |
| MS534PMM750MSZ | 0.075 | 0.230 | 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 |











Dimensions are in inches



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- 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 1.1 - 1.5 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

1. When ordering, please specify screening code:

MS534PMM231MSZ

Screening: Z = Unscreened

- Y = Unscreened (SLDC Option A)
- W = Unscreened (SLDC Option B)
- H = Group A screening per Coilcraft CP-SA-10001 G = Coilcraft CP-SA-10001 Group A (SLDC Option A)
- **D** = Coilcraft CP-SA-10001 Group A (SLDC Option B)
- 1 = EEE-INST-002 (Family 1) Level 1
- 2 = EEE-INST-002 (Family 1) Level 2
- 3 = EEE-INST-002 (Family 1) Level 3
- 4 = MIL-STD-981 (Family 04) Class B
- 5 = MIL-STD-981 (Family 04) Class S
- **F** = ESCC3201 (F4 operational life performed at 105°C)
- Screening performed to the document's latest revision.
- Lot qualification (Group B) available.
- Testing T and U have been replaced with more detailed codes 4, 5, and 1, 2, 3, respectively. Codes T and U can still be used, if necessary. Custom testing also available.
- 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. This information is for design purposes only and shall not be tested during screening.
- 5. DC current at 25°C that causes an inductance drop of 20% (typ) from its value without current.
- 6. 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. Due to the design of this component, DWV and IR shall not be specified or tested.
- 8. Electrical specifications at 25°C.
- Refer to Doc 362 "Soldering Surface Mount Components" before soldering.

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

Document MS498-1 Revised 08/11/23

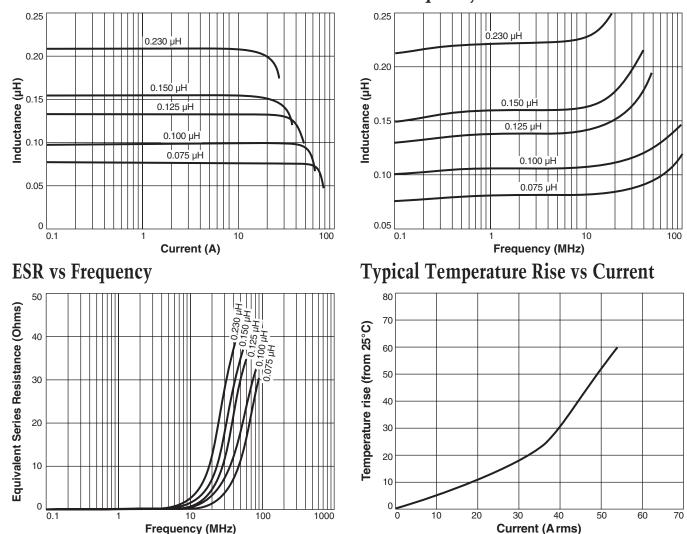
This product may not be used in medical or high risk applications without prior Coilcraft approval. Specifications subject to change without notice. Please check our web site for latest information.

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

Shielded Power Inductors – MS534PMM Series



L vs Frequency





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