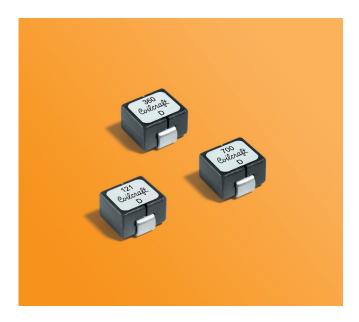
High-Reliability Power Inductors MS528PMM



Part number ^{1,7}	L ±10% ² (nH)	DCR ±5% ³ (mOhms)	SRF ref ⁴ (MHz)	Isat⁵ (A)	Irms ⁶ (A)
MS528PMM360KS_	36	0.17	1150	100	39
MS528PMM500KS_	50	0.17	900	84	39
MS528PMM700KS_	70	0.17	750	65	39
MS528PMM101KS_	100	0.17	110	42	39
MS528PMM121KS_	120	0.17	78	33	39
MS528PMM151KS_	150	0.17	67	27	39

1. When ordering, please specify screening code:

MS528PMM151KSZ

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
- $\mathbf{F} = \text{ESCC3201}$ (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.
- Country of origin restrictions available; prefix options G or F.

- Designed for use in multi-phase VRM/VRD regulators and high current/high frequency DC/DC converters.
- Requires only 60 mm² of board space; can handle up to 100 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** 0.9 g

Ambient temperature -55° C to $+125^{\circ}$ 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 Plastic tape: 16 mm wide, 0.35 mm thick, 12 mm pocket spacing, 5 mm pocket depth

- Inductance tested at 100 kHz, 0.1 Vrms using an Agilent/HP 4263B LCR meter or equivalent.
- 3. DCR is measured between the two points indicated on the dimensional drawing.
- This information is for design purposes only and shall not be tested during screening.
- 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.
- 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.

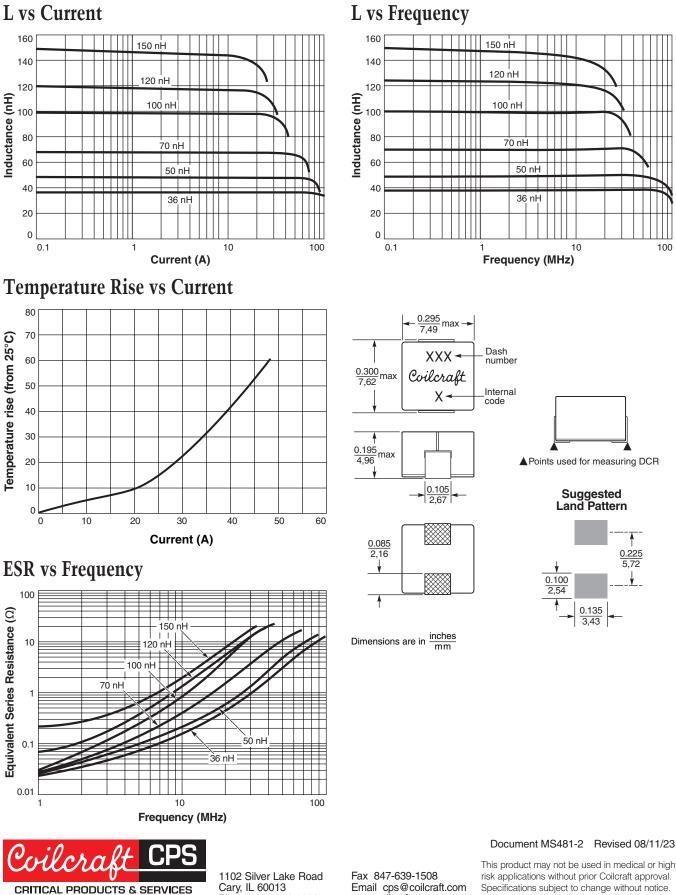


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