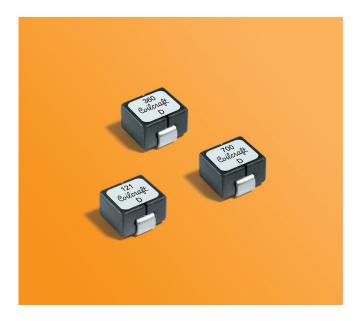
# High-Reliability Power Inductors ML528PMM



Part number <sup>1,7</sup>	L ±10%² (nH)	DCR ±5% <sup>3</sup> (mOhms)	SRF ref <sup>4</sup> (MHz)	Isat⁵ (A)	Irms <sup>6</sup> (A)
ML528PMM360KL_	36	0.17	1150	100	39
ML528PMM500KL_	50	0.17	900	84	39
ML528PMM700KL_	70	0.17	750	65	39
ML528PMM101KL_	100	0.17	110	42	39
ML528PMM121KL_	120	0.17	78	33	39
ML528PMM151KL_	150	0.17	67	27	39

1. When ordering, please specify **screening** code:

## ML528PMM151KLZ

#### 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
- $\mathbf{2} = \text{EEE-INST-002}$  (Family 1) Level 2
- $\mathbf{3} = \text{EEE-INST-002}$  (Family 1) Level 3
- $\mathbf{4} = \text{MIL-STD-981}$  (Family 04) Class B
- $\mathbf{5} = \text{MIL-STD-981}$  (Family 04) Class S
- **F** = Screening per ESCC 3201
- 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 mm<sup>2</sup> of board space; can handle up to 100 A.

### Core material Ferrite

Terminations Matte tin over nickel over copper.

Weight 0.9 g

Ambient temperature  $-55^{\circ}$ C to  $+125^{\circ}$ C with Irms current Maximum part temperature  $+155^{\circ}$ 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.

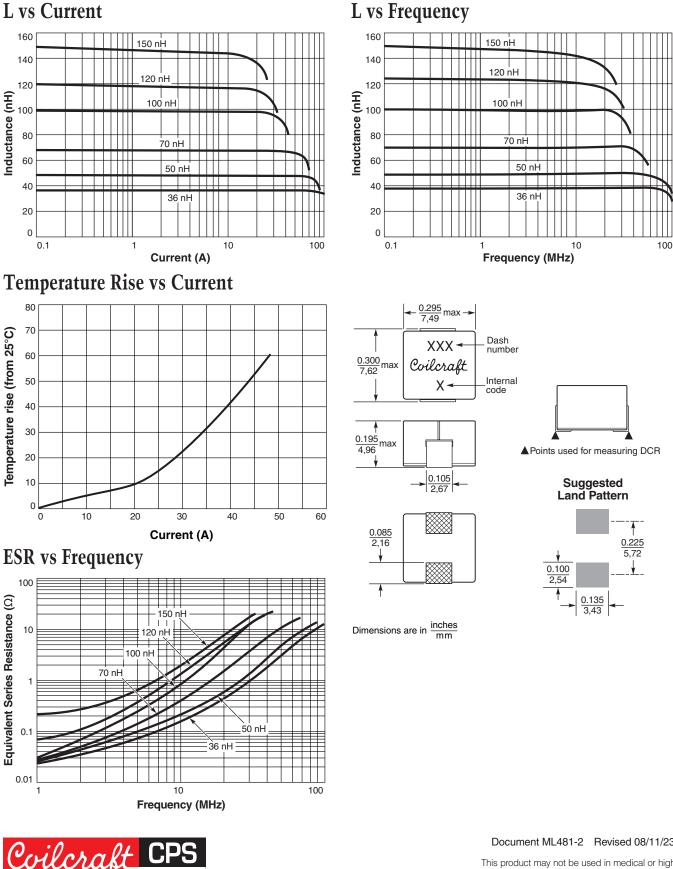


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#### Document ML481-1 Revised 08/11/23

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.

# Shielded Power Inductors – ML528PMM Series



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