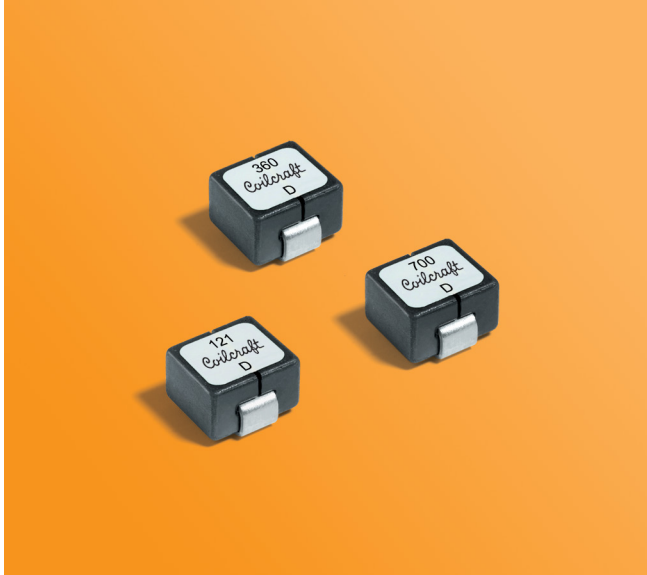


High-Reliability Power Inductors ML528PMM



- 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.

Core material Ferrite

Terminations Matte tin over nickel over copper.

Weight 0.9 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 Plastic tape: 16 mm wide, 0.35 mm thick, 12 mm pocket spacing, 5 mm pocket depth

Part number ¹	L ±10% ² (nH)	DCR ±5% ³ (mOhms)	SRF typ ⁴ (MHz)	Isat ⁵ (A)	Irms ⁶ (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

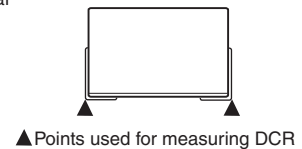
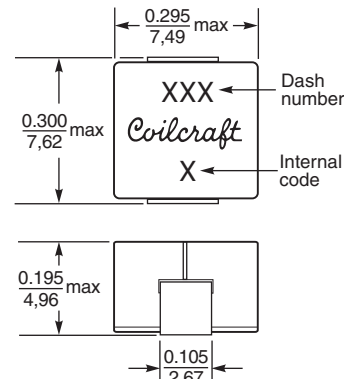
1. When ordering, please specify **testing** code:

ML528PMM750MLZ

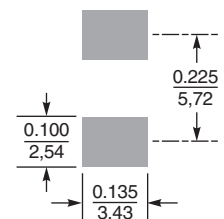
Testing: Z = Unscreened
H = Group A screening per Coilcraft CP-SA-10001
T = Screening per MIL-STD-981
U = Screening per EEE-INST-002
F = Screening per ESCC 3201
All screening performed to the document's latest revision
Custom screening also available

- Inductance tested at 100 kHz, 0.1 Vrms using an Agilent/HP 4263B LCR meter or equivalent.
- DCR is measured between the two points indicated on the dimensional drawing.
- SRF measured 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.



Suggested Land Pattern



Dimensions are in $\frac{\text{inches}}{\text{mm}}$

Coilcraft CPS
CRITICAL PRODUCTS & SERVICES

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

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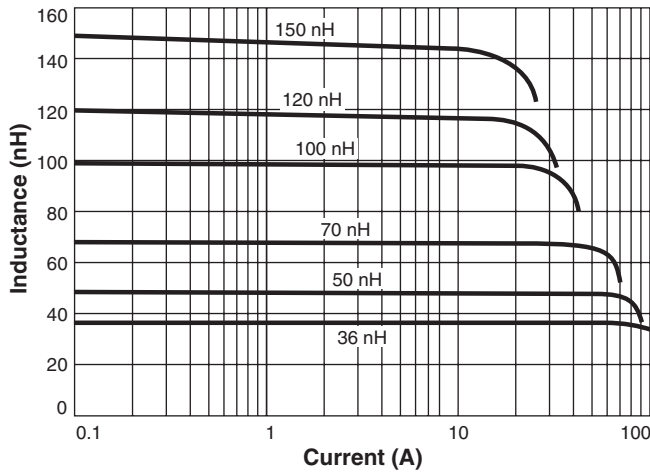
Fax 847-639-1508
Email cps@coilcraft.com
www.coilcraft-cps.com

Document ML481-1 Revised 05/31/17

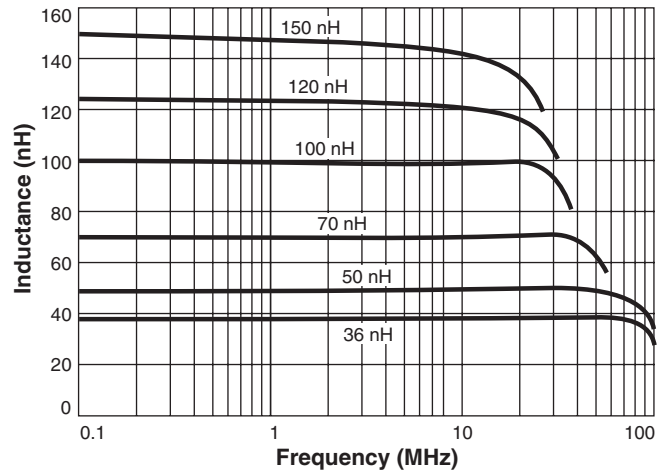
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Shielded Power Inductors – ML528PMM Series

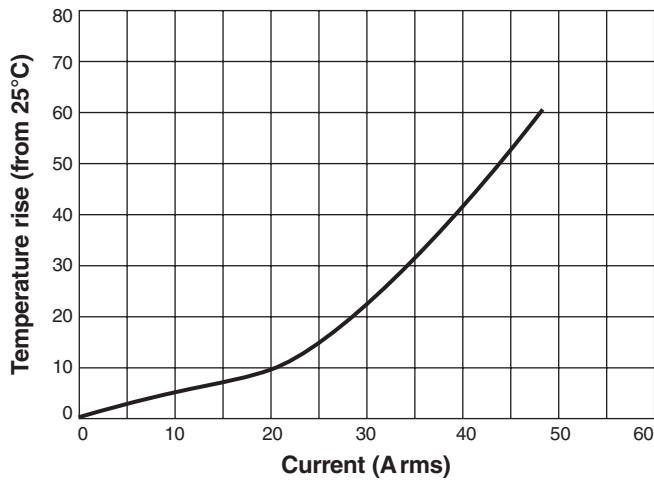
L vs Current



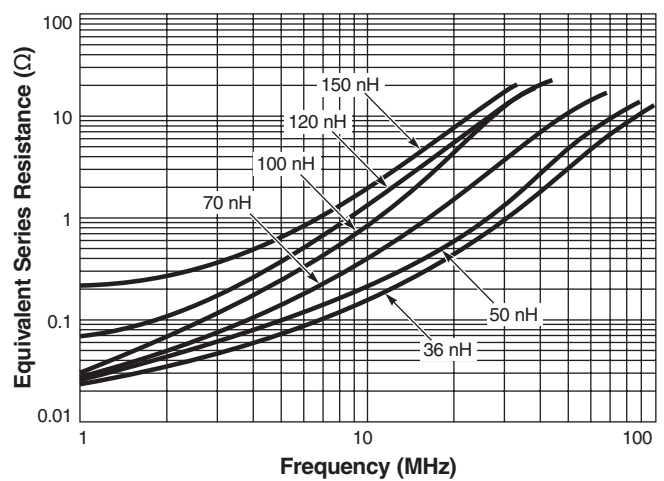
L vs Frequency



Temperature Rise vs Current



ESR vs Frequency



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

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

Document ML481-2 Revised 05/31/17

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