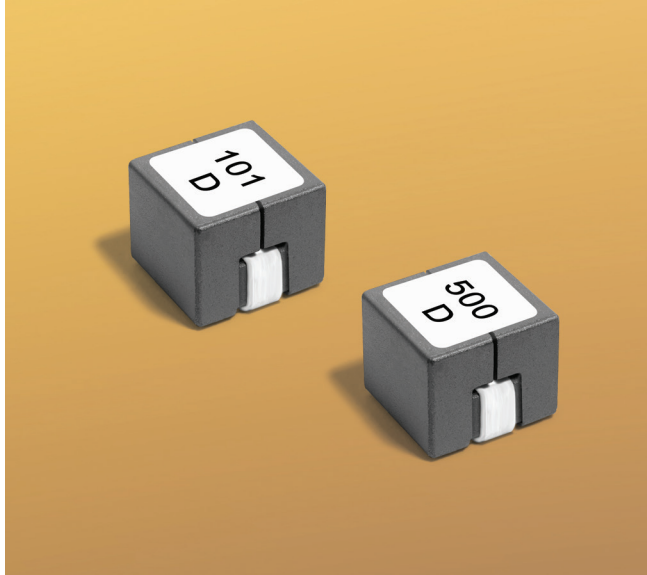


NEW!

Shielded Power Inductors ST464PMR



- Tight DCR tolerance for inductor-DCR-based current sensing circuits
- Excellent current handling, up to 78 A
- 4.0 × 4.0 × 4.0 mm surface mount package
- Designed for use in multi-phase VRM/VRD/EVRD regulators

Core material Ferrite

Weight 2.4 g

Terminations Matte tin over nickel over copper.

Ambient temperature -40°C to +85°C with (40°C rise) Irms current.

Maximum part temperature +125°C (ambient + temp rise).

Storage temperature Component: -55°C to +125°C.

Tape and reel packaging: -55°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 500/7" reel; 2000/13" reel; Plastic tape: 12 mm wide, 0.35 mm thick, 8 mm pocket spacing, 4.0 mm pocket depth

PCB washing Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See [Doc787_PCB_Washing.pdf](#).

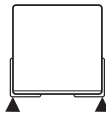
Part number ¹	Inductance ² ±15% (nH)	DCR ±10% ³ (mOhms)	SRF typ (MHz)	Isat (A) ⁴			Irms (A) ⁵	
				at 25°C	at 100°C	at 125°C	20°C rise	40°C rise
ST464PMR220LEZ	22	0.32	200	78.0	61.0	57.0	24	40
ST464PMR500LEZ	50	0.32	110	39.0	33.5	30.5	24	40
ST464PMR650LEZ	65	0.32	100	31.0	29.3	26.8	24	40
ST464PMR800LEZ	80	0.32	80	24.0	20.2	18.0	24	40
ST464PMR101LEZ	100	0.32	70	18.5	17.0	15.6	24	40

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

ST464PMR101LEZ

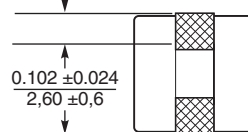
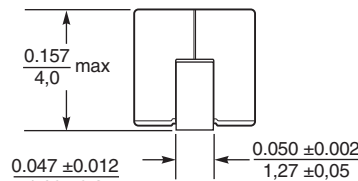
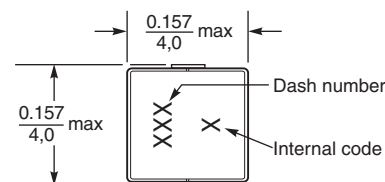
Screening: Z = Unscreened
 Y = Unscreened (SLDC Option A)
 W = Unscreened (SLDC Option B)
 H = Group A screening per Coilcraft CP-SA-10001
 G = Coilcraft CP-SA-10001 Group A (SLDC Option A)
 D = Coilcraft CP-SA-10001 Group A (SLDC Option B)
 • Screening performed to the document's latest revision.

2. Inductance tested at 100 kHz, 0.1 Vrms, 0 Adc.
 3. DCR is measured on a micro-ohmmeter at points indicated in the diagram below.



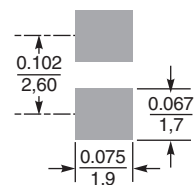
4. DC current that causes an inductance drop of 20% (typ) from its value without current.
 5. Current that causes the specified temperature rise from 25°C ambient. This information is for reference only and does not represent absolute maximum ratings. Temperature rise is highly dependent on many factors including pcb land pattern, trace size, air flow, and proximity to other components. Therefore temperature rise should be verified in application conditions.
 6. Electrical specifications at 25°C.

Refer to Doc 362 "Soldering Surface Mount Components" before soldering.



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

Suggested Land Pattern



Coilcraft CPS
CRITICAL PRODUCTS & SERVICES

© Coilcraft, Inc. 2026

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

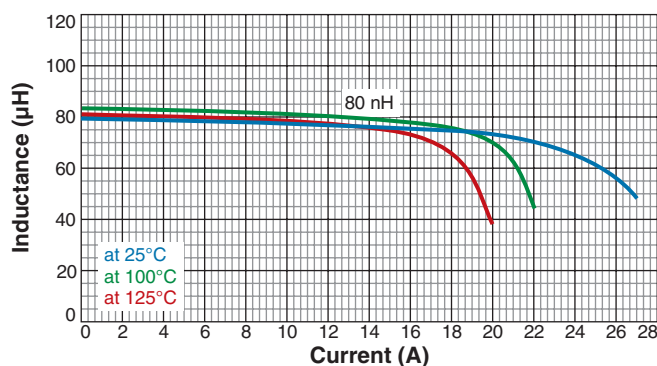
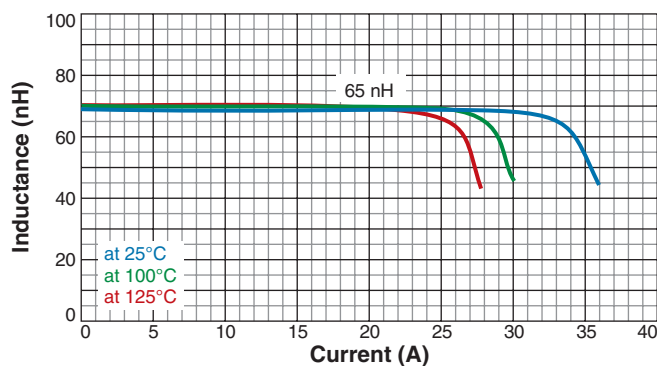
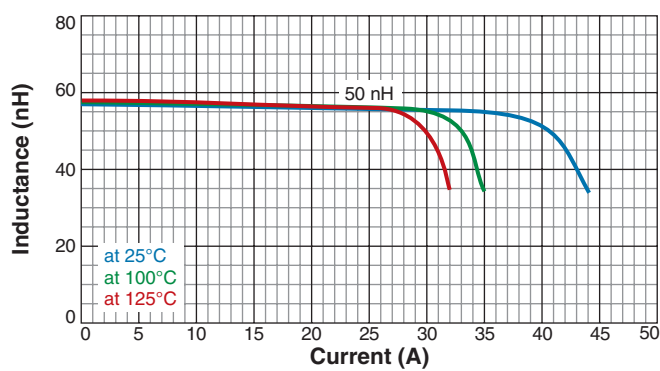
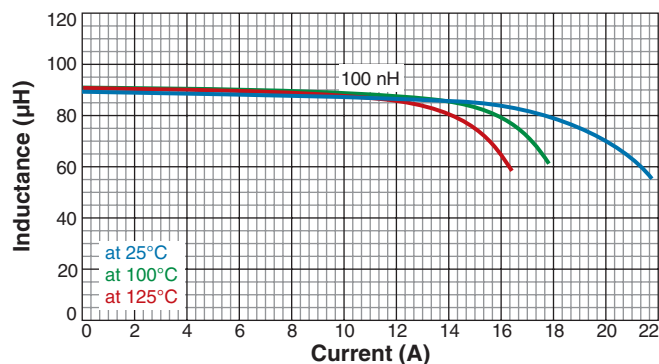
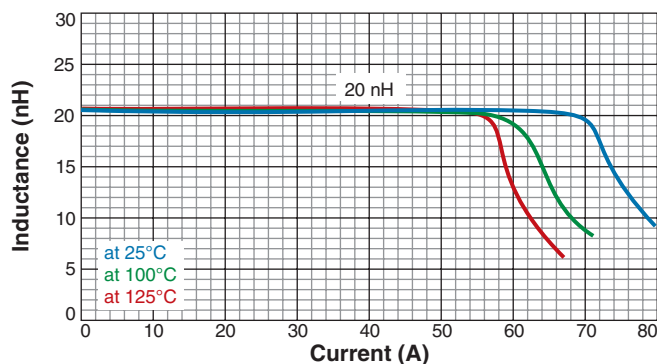
Fax 847-639-1508
 Email cps@coilcraft.com
www.coilcraft-cps.com

Document ST1428-1 Revised 05/13/26

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 - ST464PMR Series

L vs Current



L vs Frequency

