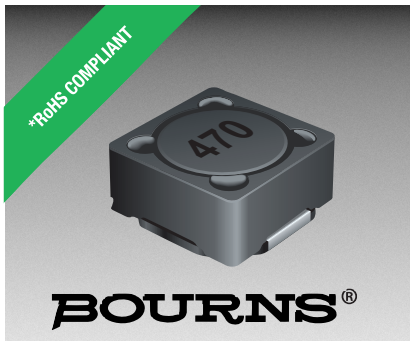




Features

- Formerly J.W. Miller® model
- Available in E12 series
- Inductance as low as 1.0 μH
- Current rating up to 9.4 A
- RoHS compliant*

Applications

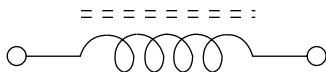
- Input/output of DC-DC converters
- Power supplies for:
 - Portable communication equipment
 - Camcorders
 - LCD TVs

PM125SH Series - Shielded SMD Power Inductor

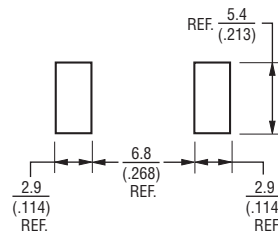
Electrical Specifications

Bourns Part No.	Inductance 100 kHz		Q Typ.	Test Frequency (MHz)	SRF Typ. (MHz)	RDC Max. (m Ω)	I rms Max. (A)	I sat Typ. (A)
	(μH)	Tol. %						
PM125SH-100M-RC	10	± 20	32	2.52	21.00	20.0	5.50	5.50
PM125SH-120M-RC	12	± 20	27	2.52	19.40	23.0	5.20	5.00
PM125SH-150M-RC	15	± 20	25	2.52	17.60	27.0	5.00	4.60
PM125SH-180M-RC	18	± 20	28	2.52	15.50	36.0	4.20	3.90
PM125SH-220M-RC	22	± 20	29	2.52	13.40	43.0	4.00	3.70
PM125SH-270M-RC	27	± 20	26	2.52	12.70	45.0	3.60	3.30
PM125SH-330M-RC	33	± 20	27	2.52	9.97	60.0	3.00	2.80
PM125SH-390M-RC	39	± 20	22	2.52	10.40	70.0	2.80	2.70
PM125SH-470M-RC	47	± 20	22	2.52	7.63	86.0	2.60	2.50
PM125SH-560M-RC	56	± 20	24	2.52	7.92	100.0	2.30	2.20
PM125SH-680M-RC	68	± 20	22	2.52	7.43	110.0	2.10	2.10
PM125SH-820M-RC	82	± 20	25	2.52	6.85	145.0	1.95	1.90
PM125SH-101M-RC	100	± 20	26	0.796	6.07	180.0	1.70	1.70
PM125SH-121K-RC	120	± 10	26	0.796	5.50	210.0	1.65	1.65
PM125SH-151K-RC	150	± 10	20	0.796	5.00	260.0	1.55	1.55
PM125SH-181K-RC	180	± 10	26	0.796	4.50	320.0	1.40	1.40
PM125SH-221K-RC	220	± 10	22	0.796	4.20	380.0	1.38	1.30
PM125SH-271K-RC	270	± 10	20	0.796	3.60	450.0	1.30	1.20
PM125SH-331K-RC	330	± 10	22	0.796	3.20	580.0	1.15	1.10
PM125SH-391K-RC	390	± 10	20	0.796	2.80	700.0	1.08	1.00
PM125SH-471K-RC	470	± 10	18	0.796	2.60	820.0	0.95	0.90
PM125SH-561K-RC	560	± 10	22	0.796	2.40	1000.0	0.88	0.80
PM125SH-681K-RC	680	± 10	18	0.796	2.20	1150.0	0.80	0.75
PM125SH-821K-RC	820	± 10	20	0.796	2.00	1500.0	0.73	0.63
PM125SH-102K-RC	1000	± 10	30	0.252	1.80	1700.0	0.68	0.60

Electrical Schematic



Recommended Layout



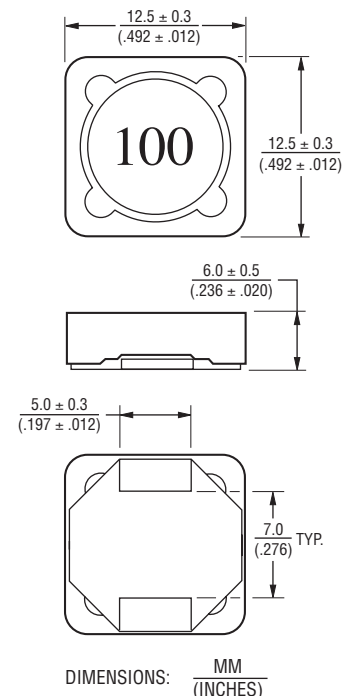
General Specifications

Test Voltage.....0.1 V
 Operating Temperature
-40 °C to +125 °C
 (Temperature rise included)
 Storage Temperature .. -40 °C to +125 °C
 Moisture Sensitivity Level 1
 ESD Classification (HBM)..... N/A

Materials

Core Ferrite DR and RI
 Wire Enameled copper wire 130
 Terminal Finish Sn
 Rated Current
 Ind. drop 25 % typ. at Isat
 Temperature Rise 40 °C typ.
 at rated I rms
 Packaging 500 pcs. per reel

Product Dimensions



Additional Information

Click these links for more information:



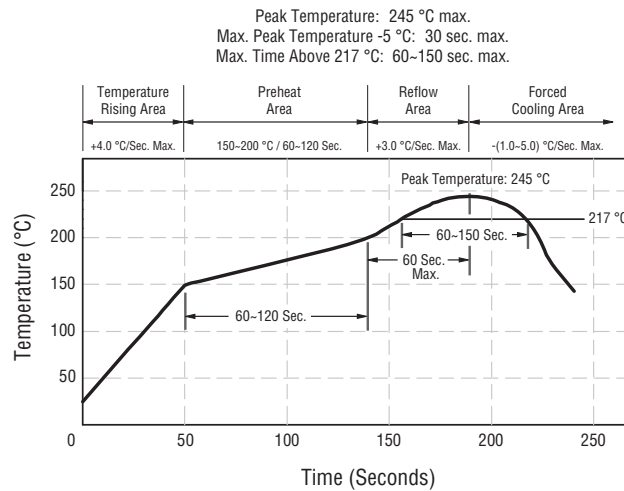
CALIFORNIA WARNING: Can expose you to lead, a carcinogen and reproductive toxicant.
 See www.P65Warnings.ca.gov

*RoHS Directive 2015/863, Mar 31, 2015 and Annex.
 Specifications are subject to change without notice. Users should verify actual device performance in their specific applications. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at www.bourns.com/docs/legal/disclaimer.pdf.

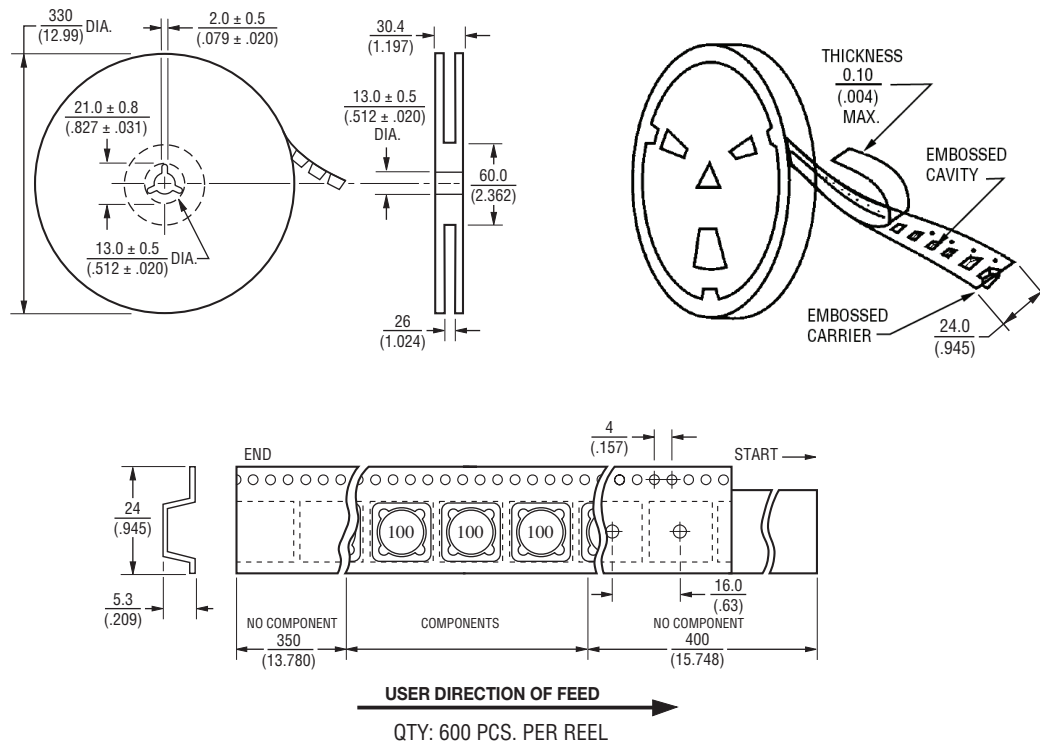
PM125SH Series - Shielded SMD Power Inductor

BOURNS®

Soldering Profile



Packaging Specifications



REV. 03/26

DIMENSIONS: $\frac{\text{MM}}{(\text{INCHES})}$

Specifications are subject to change without notice.

The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time. Users should verify actual device performance in their specific applications.

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