

Features

- \blacksquare Formerly J. W. Miller $^{\circ}$ model
- Height of 2.0 mm max.
- Current rating up to 2.0 A
- RoHS compliant*

Applications

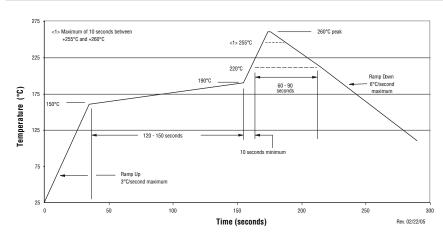
- Input/output of DC/DC converters
- Power supplies for:
 - Portable communication equipment
 - Camcorders
 - LCD TVs

PM518S Series - Shielded SMD Power Inductors

Electrical Specifications

	Inductand	e 100 kHz	_	Test	SRF	DCR		
Bourns Part No.	(µH)	Tol. %	Q Ref.	Frequency (MHz)	Typ. (MHz)	Max. (mΩ)	Irms (A)	lsat (A)
PM518S-4R1-RC	4.1	±30	8	7.96	60	55	2.00	2.10
PM518S-5R4-RC	5.4	±30	7.4	7.96	58	76	1.65	1.65
PM518S-6R2-RC	6.2	±30	7.5	7.96	51	80	1.45	1.60
PM518S-8R9-RC	8.9	±30	7.3	7.96	40	116	1.25	1.25
PM518S-100-RC	10	±30	11	2.52	41	130	1.10	1.25
PM518S-120-RC	12	±30	8.6	2.52	39	160	1.00	1.15
PM518S-150-RC	15	±30	12.7	2.52	32	190	0.95	1.10
PM518S-180-RC	18	±30	8.8	2.52	29	210	0.90	1.00
PM518S-220-RC	22	±30	14.7	2.52	22	280	0.80	0.90
PM518S-270-RC	27	±30	10.2	2.52	21	320	0.75	0.80
PM518S-330-RC	33	±30	10.9	2.52	20	350	0.65	0.70
PM518S-390-RC	39	±30	10.6	2.52	17	500	0.55	0.65
PM518S-470-RC	47	±30	8.9	2.52	14	550	0.52	0.60
PM518S-560-RC	56	±30	8.9	2.52	13	600	0.48	0.55
PM518S-680-RC	68	±30	9.9	2.52	12	850	0.40	0.50
PM518S-820-RC	82	±30	9.1	2.52	11	950	0.38	0.45
PM518S-101-RC	100	±30	13.1	0.796	10	1100	0.35	0.42

Soldering Profile



WARNING Cancer and Reproductive Harm - <u>www.P65Warnings.ca.gov</u>

* RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011. 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

General Specifications

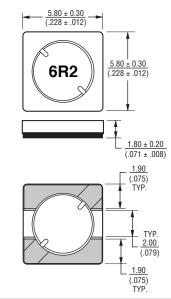
Test Voltage 0.1 V, 100 KHz Reflow Soldering230 $^\circ\text{C};$ 50 sec max. Operating Temperature

Moisture Sensitivity Leve	əl	 	 	2
ESD Classification (HBN	1)	 	 N/	A

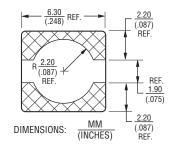
Materials

Core Material	Ferrite
Wire	. Enameled Copper
Adhesive	Epoxy Resin
Terminal	Ag/Ni/Sn
Rated CurrentInd	d. drop of 35 % typ.
	at Isat
Temperature Rise	
Packaging	. 2000 pcs. per reel

Product Dimensions

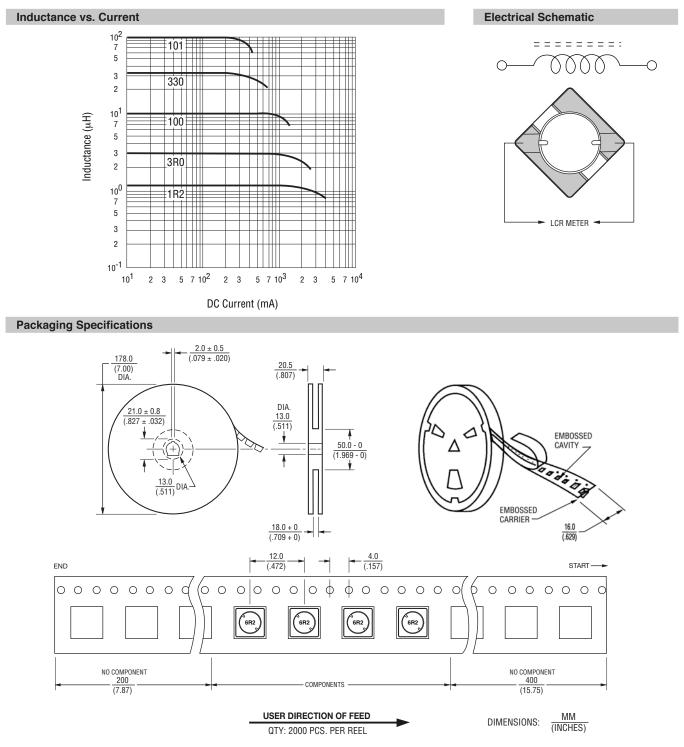


Recommended Layout



PM518S Series - Shielded SMD Power Inductors

BOURNS



REV. 03/18

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