



Features

- Formerly **J. W. Miller**® model
- Height of 2.0 mm
- Current rating up to 2.7 A
- RoHS compliant

Applications

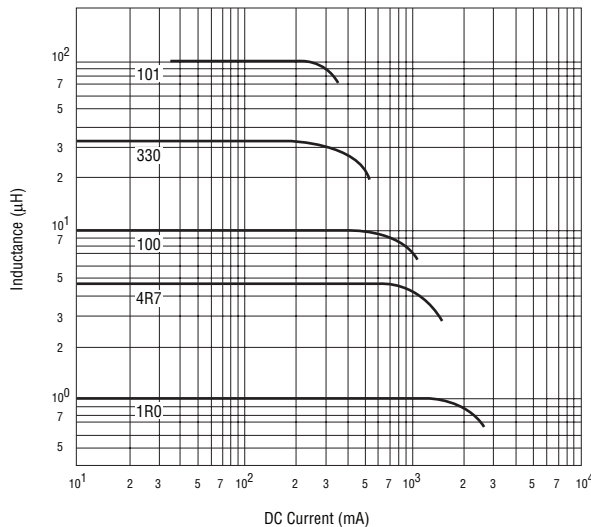
- Input/output of DC/DC converters
- Power supplies for:
 - Portable communication equipment
 - Camcorders
 - LCD TVs

PM42S Series - Shielded SMD Power Inductors

Electrical Specifications

Bourns Part No.	Inductance 100 kHz		Q Ref.	Test Frequency (MHz)	SRF Typ. (MHz)	DCR Max. (mΩ)	I rms (A)	I sat (A)
	(μH)	Tol. %						
PM42S-1R0-RC	1.0	±30	9	7.960	219	35	2.70	2.60
PM42S-2R2-RC	2.2	±30	8	7.960	90	55	2.10	2.10
PM42S-2R7-RC	2.7	±30	8	7.960	78	60	2.03	1.95
PM42S-3R3-RC	3.3	±30	8	7.960	61	65	1.95	1.80
PM42S-3R9-RC	3.9	±30	8	7.960	60	75	1.82	1.65
PM42S-4R7-RC	4.7	±30	8	7.960	55	82	1.72	1.50
PM42S-5R6-RC	5.6	±30	7	7.960	57	90	1.64	1.25
PM42S-6R8-RC	6.8	±30	8	7.960	49	100	1.50	1.15
PM42S-8R2-RC	8.2	±30	7	7.960	40	135	1.40	1.10
PM42S-100-RC	10	±30	10	2.520	38	150	1.30	1.00
PM42S-120-RC	12	±30	9	2.520	32	170	1.15	0.90
PM42S-150-RC	15	±30	8	2.520	30	220	1.03	0.82
PM42S-180-RC	18	±30	7	2.520	30	280	0.92	0.75
PM42S-220-RC	22	±30	7	2.520	29	300	0.88	0.65
PM42S-270-RC	27	±30	7	2.520	23	370	0.77	0.60
PM42S-330-RC	33	±30	7	2.520	21	420	0.73	0.50
PM42S-390-RC	39	±30	8	2.520	19	540	0.64	0.48
PM42S-470-RC	47	±30	8	2.520	20	600	0.62	0.45
PM42S-560-RC	56	±30	8	2.520	15	820	0.52	0.40
PM42S-680-RC	68	±30	7	2.520	13	860	0.50	0.38
PM42S-820-RC	82	±30	8	2.520	13	1200	0.43	0.32
PM42S-101-RC	100	±30	10	0.796	12	1350	0.40	0.30
PM42S-121-RC	120	±30	11	0.796	10	1950	0.33	0.28
PM42S-151-RC	150	±30	14	0.796	10	2600	0.28	0.26
PM42S-181-RC	180	±30	10	0.796	10	4000	0.18	0.25

Inductance vs. Current



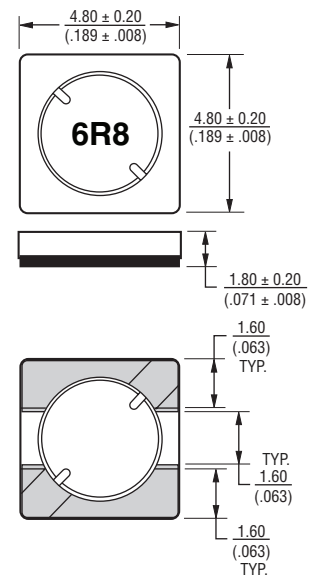
General Specifications

Test Voltage 0.1 V, 100 KHz
 Reflow Soldering 230 °C; 50 sec max.
 Operating Temp. -40 °C to +125 °C
 (Temperature rise included)
 Storage Temperature .. -40 °C to +125 °C
 Resistance to Soldering Heat
 260 °C for 10 sec.
 Moisture Sensitivity Level 2
 ESD Classification (HBM) N/A

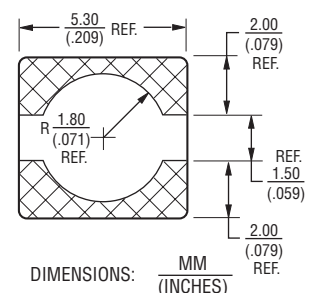
Materials

Core Material Ferrite
 Wire Enameled Copper
 Adhesive Epoxy Resin
 Terminal Ag/Ni/Sn
 Rated Current Ind. drop of 35 % typ.
 at Isat
 Temperature Rise 30 °C typ. at Irms
 Packaging 1000 pcs. per reel

Product Dimensions



Recommended Layout

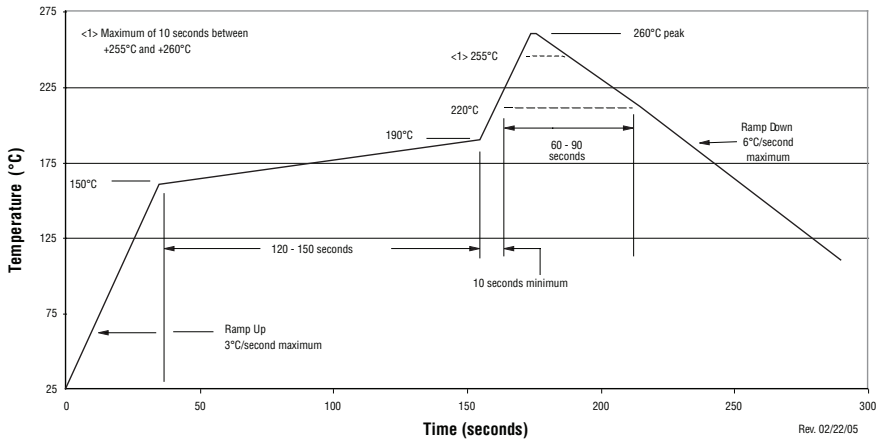


*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.
 Specifications are subject to change without notice.
 The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.
 Users should verify actual device performance in their specific applications.

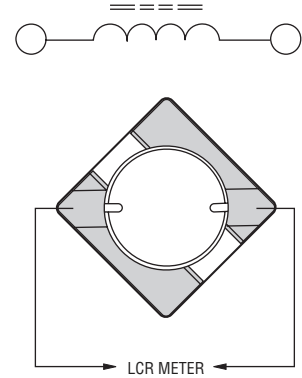
PM42S Series - Shielded SMD Power Inductors

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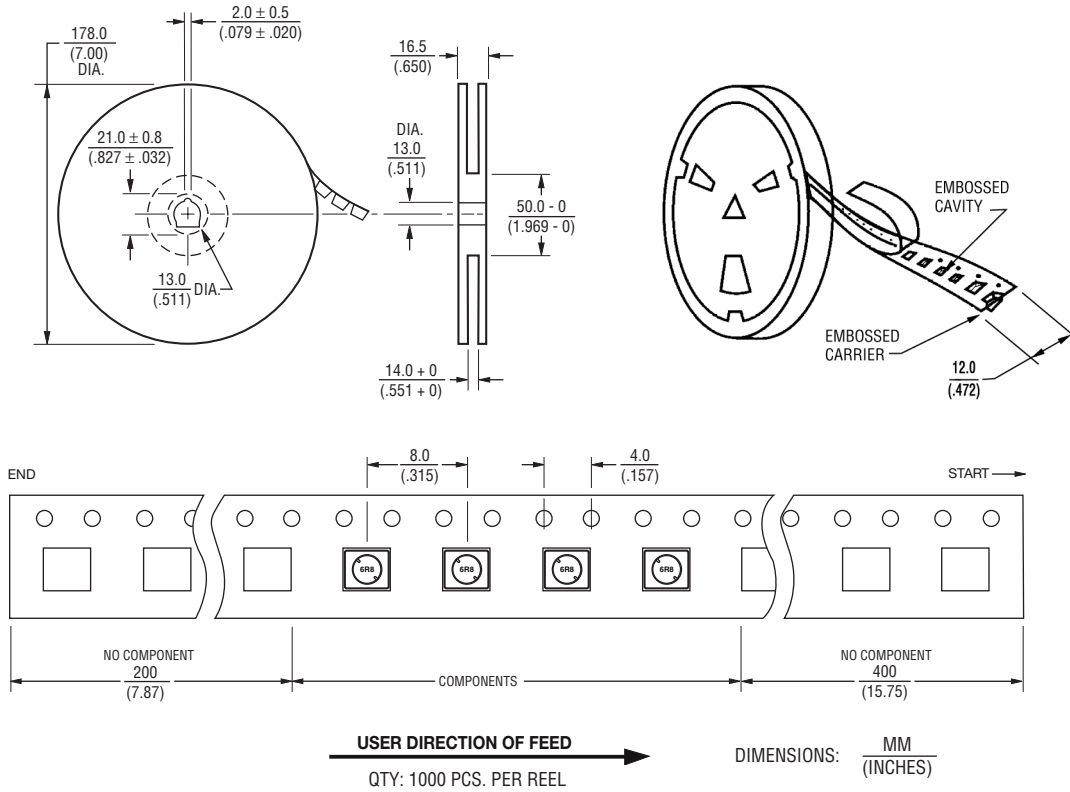
Soldering Profile



Electrical Schematic



Packaging Specifications



REV. 03/18

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