



Features

- Formerly **JW.Miller** model
- Height of 3.0 mm max.
- Current rating up to 3.0 A
- RoHS compliant*

Applications

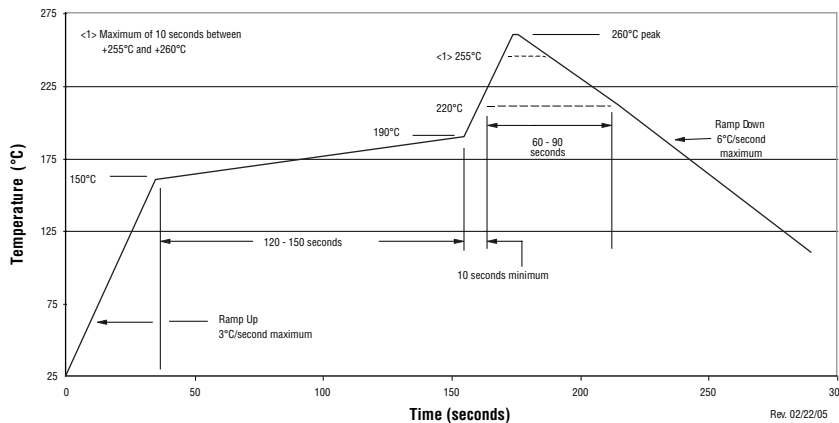
- Input/output of DC/DC converters
- Power supplies for:
 - Portable communication equipment
 - Camcorders
 - LCD TVs
 - Car radios

PM528S Series - Shielded SMD Power Inductor

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. %						
PM528S-2R6Y-RC	2.6	±30	7	7.96	77	30	3.00	2.70
PM528S-3R0Y-RC	3.0	±30	7	7.96	65	30	2.80	2.50
PM528S-4R2Y-RC	4.2	±30	7	7.96	51	35	2.50	2.20
PM528S-5R3Y-RC	5.3	±30	7	7.96	45	40	2.30	1.90
PM528S-6R2Y-RC	6.2	±30	7	7.96	39	45	2.20	1.80
PM528S-8R2Y-RC	8.2	±30	7	7.96	34	55	2.10	1.60
PM528S-100Y-RC	10	±30	9	2.52	30	70	1.50	1.40
PM528S-120Y-RC	12	±30	11	2.52	28	80	1.46	1.25
PM528S-150Y-RC	15	±30	9	2.52	22	100	1.37	1.15
PM528S-180Y-RC	18	±30	10	2.52	20	110	1.25	1.10
PM528S-220Y-RC	22	±30	7	2.52	20	120	1.15	1.00
PM528S-270Y-RC	27	±30	10	2.52	17	160	1.05	0.90
PM528S-330Y-RC	33	±30	11	2.52	13	190	0.90	0.78
PM528S-390Y-RC	39	±30	8	2.52	13	210	0.86	0.72
PM528S-470Y-RC	47	±30	7	2.52	13	250	0.82	0.65
PM528S-560Y-RC	56	±30	9	2.52	12	300	0.72	0.60
PM528S-680Y-RC	68	±30	8	2.52	11	350	0.62	0.56
PM528S-820Y-RC	82	±30	8	2.52	9	430	0.52	0.50
PM528S-101Y-RC	100	±30	8	0.796	8	480	0.45	0.45

Soldering Profile



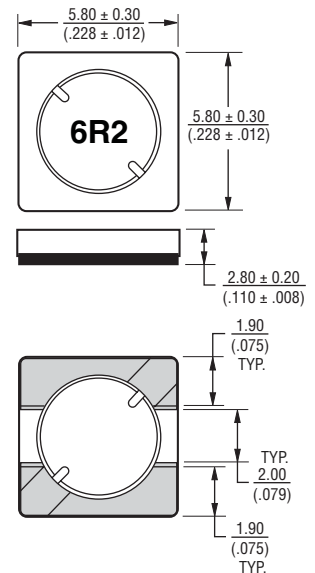
General Specifications

Test Voltage 0.1 V, 100 KHz
 Reflow Soldering 230 °C; 50 sec max.
 Operating Temperature
 -40 °C to +125 °C
 (Temperature rise included)
 Storage Temperature .. -40 °C to +125 °C
 Resistance to Soldering Heat
 260 °C for 10 sec.

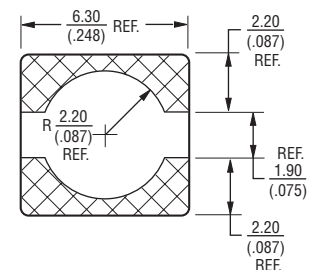
Materials

Core Material Ferrite
 Wire Enameled Copper
 Adhesive Epoxy Resin
 Terminal Ag/Ni/Sn
 Rated Current Ind. drop of 35 % typ.
 at I_{sat}
 Temperature Rise 30 °C typ. at I_{rms}
 Packaging 400 pcs. per reel

Product Dimensions



Recommended Layout



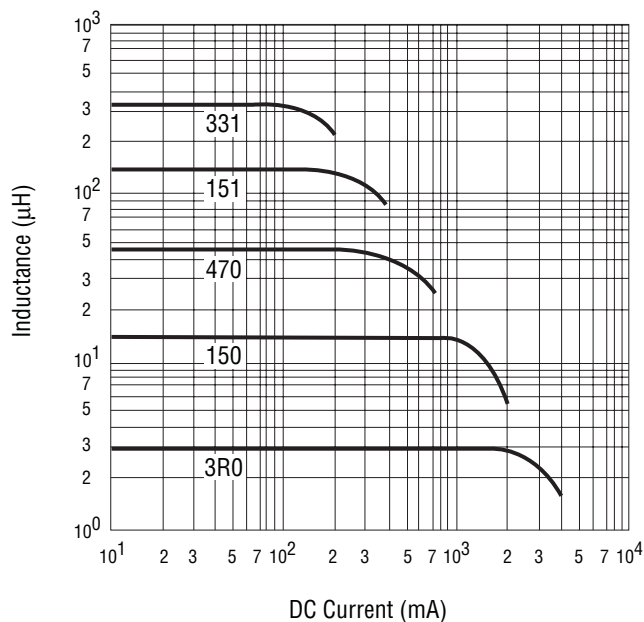
DIMENSIONS: MM (INCHES)

*RoHS Directive 2002/95/EC Jan 27 2003 including Annex.
 Specifications are subject to change without notice.
 Customers should verify actual device performance in their specific applications

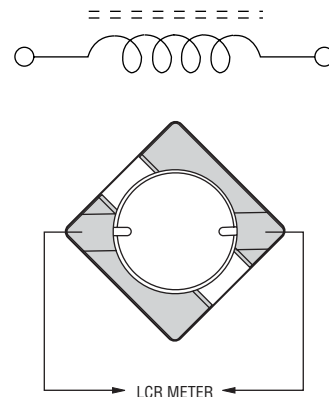
PM528S Series - Shielded SMD Power Inductor

BOURNS®

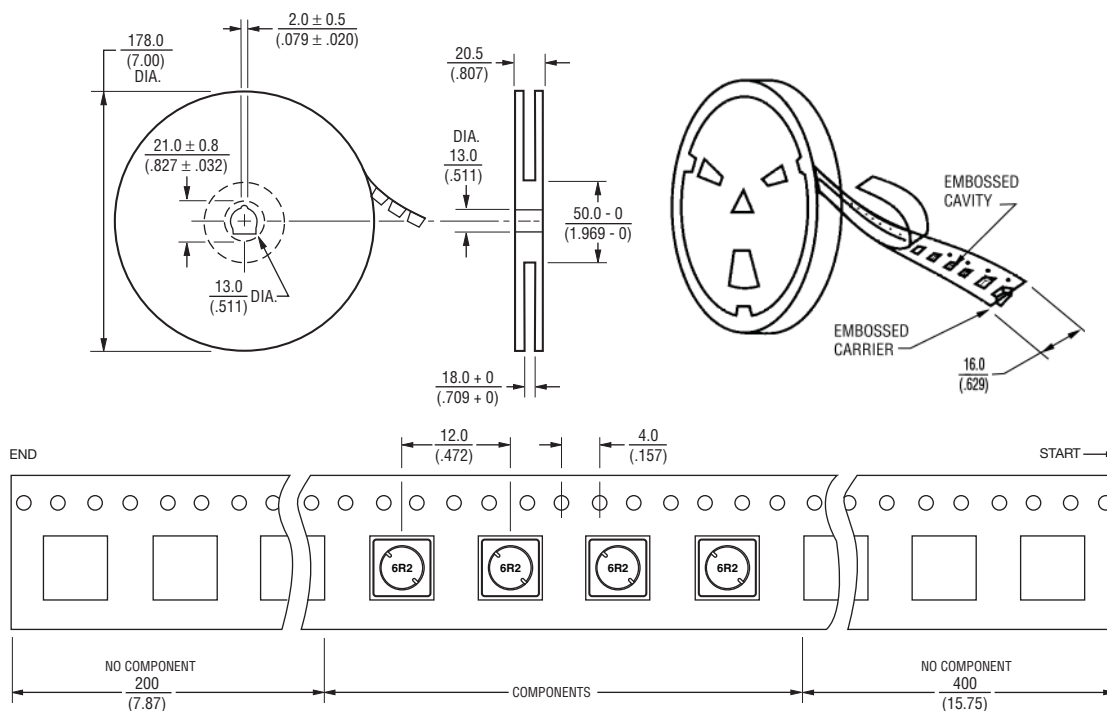
Inductance vs. Current



Electrical Schematic



Packaging Specifications



USER DIRECTION OF FEED →

QTY: 400 PCS. PER REEL

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

REV. 05/09

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