



Features

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

Applications

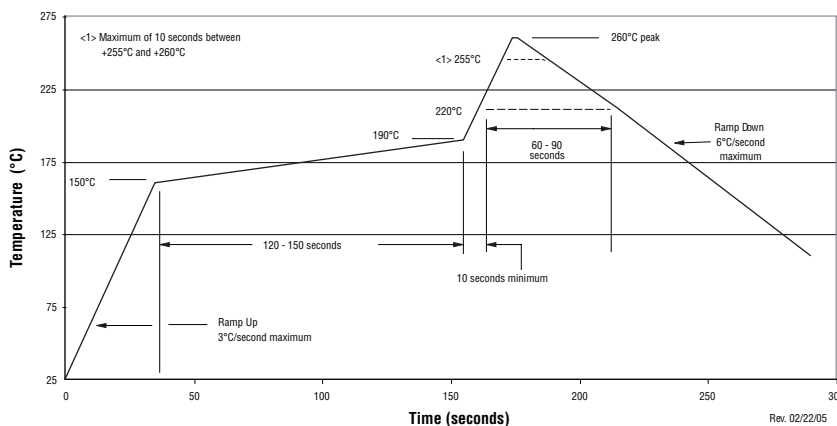
- Input/output of DC/DC converters
- Power supplies for:
 - Portable communication equipment
 - Camcorders
 - LCD TVs
 - Car radios

PM628S 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. %						
PM628S-3R0-RC	3.0	±30	9	7.96	45	28	3.00	2.60
PM628S-3R9-RC	3.9	±30	9	7.96	47	32	2.45	2.30
PM628S-5R0-RC	5.0	±30	7.5	7.96	50	36	2.40	2.10
PM628S-6R0-RC	6.0	±30	9	7.96	48	40	2.30	2.00
PM628S-7R3-RC	7.3	±30	6	7.96	38	52	2.20	1.85
PM628S-8R6-RC	8.6	±30	8	2.52	33	56	2.10	1.82
PM628S-100-RC	10	±30	11	2.52	29	65	2.00	1.70
PM628S-120-RC	12	±30	10	2.52	24	70	1.90	1.50
PM628S-150-RC	15	±30	9.5	2.52	23	78	1.70	1.30
PM628S-180-RC	18	±30	9	2.52	21	85	1.50	1.10
PM628S-220-RC	22	±30	8.5	2.52	19	115	1.40	1.08
PM628S-270-RC	27	±30	9	2.52	19	130	1.20	1.00
PM628S-330-RC	33	±30	10	2.52	14	155	1.15	0.92
PM628S-390-RC	39	±30	10	2.52	17	195	1.00	0.75
PM628S-470-RC	47	±30	10	2.52	11	235	0.92	0.72
PM628S-560-RC	56	±30	10	0.796	15	260	0.85	0.65
PM628S-680-RC	68	±30	11	0.796	10.5	300	0.80	0.60
PM628S-820-RC	82	±30	9	0.796	14	400	0.70	0.56
PM628S-101-RC	100	±30	8.5	0.796	7	500	0.58	0.55

Soldering Profile



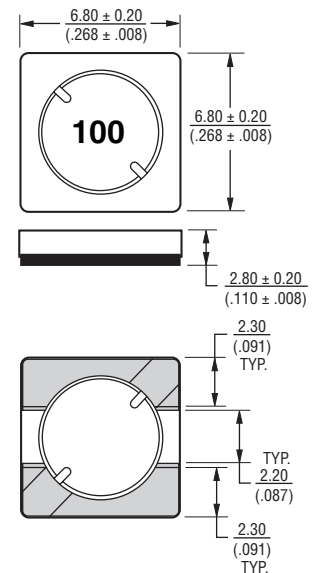
General Specifications

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.

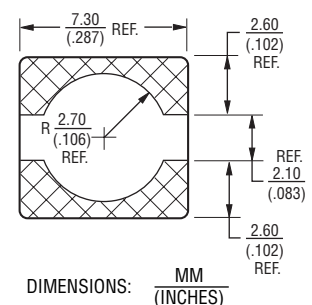
Materials

Core Material Ferrite
 Wire Enameled Copper
 Adhesive Epoxy Resin
 Terminal Ag/Ni/Sn
 Rated Current Ind. drop of 35 % typ.
 at Isat
 Temperature Rise 30 °C typ. at I rms
 Packaging 1500 pcs. per reel

Product Dimensions

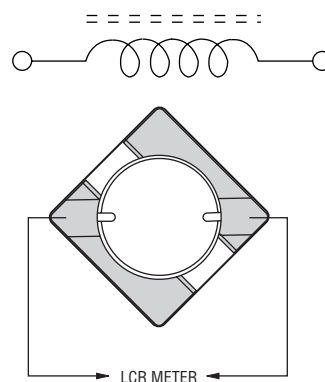


Recommended Layout

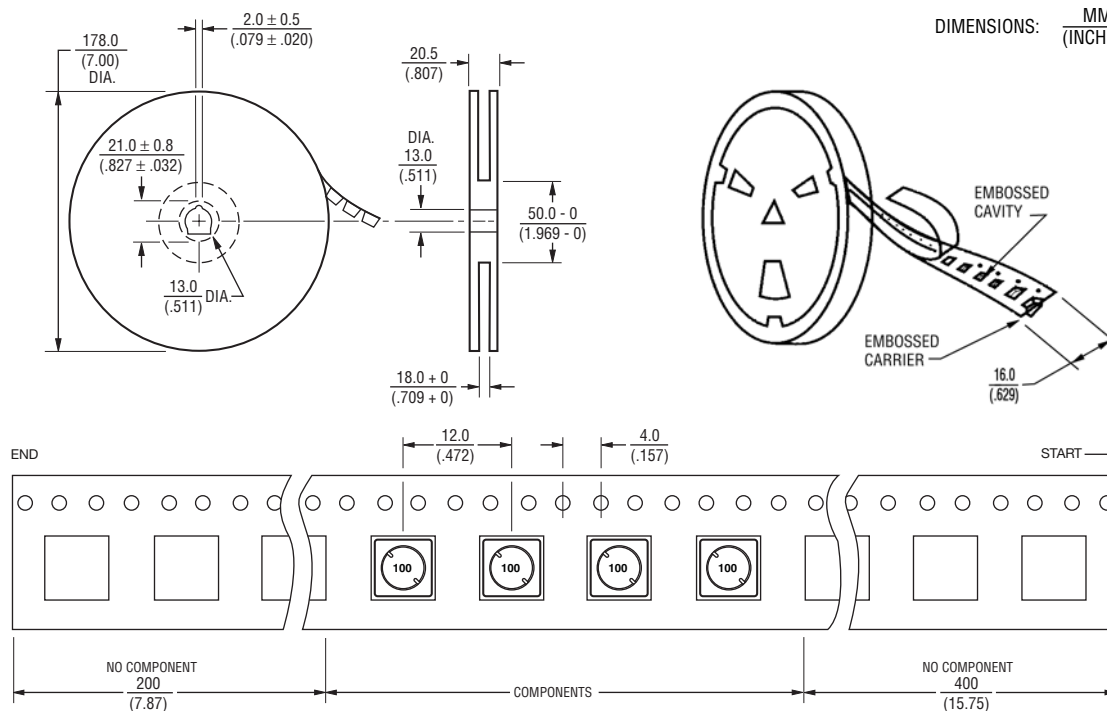


BOURNS®

Electrical Schematic



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



QTY: 1500 PCS. PER REEL

Specifications are subject to change without notice.
Customers should verify actual device performance in their specific applications.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Bourns:

[PM628S-270](#) [PM628S-150](#) [PM628S-100](#) [PM628S-820](#) [PM628S-3R0](#) [PM628S-470](#) [PM628S-330](#) [PM628S-220](#)
[PM628S-180](#) [PM628S-5R0](#) [PM628S-8R6](#) [PM628S-120](#) [PM628S-101](#) [PM628S-680](#) [PM628S-7R3](#) [PM628S-560](#)
[PM628S-3R9](#) [PM628S-390](#) [PM628S-6R0](#)