



Features

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

Additional Information

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INVENTORY



SAMPLES



CONTACT

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	40	32	2.45	2.30
PM628S-5R0-RC	5.0	±30	7.5	7.96	38	36	2.40	2.10
PM628S-6R0-RC	6.0	±30	9	7.96	35	40	2.30	2.00
PM628S-7R3-RC	7.3	±30	6	7.96	30	52	2.20	1.85
PM628S-8R6-RC	8.6	±30	8	2.52	28	56	2.10	1.82
PM628S-100-RC	10	±30	11	2.52	25	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	22	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	20	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	18	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	16	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	15	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	14	500	0.58	0.55

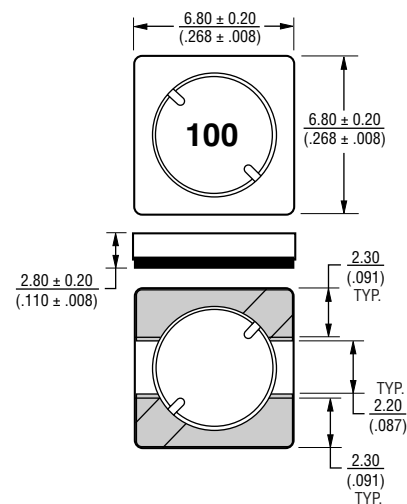
General Specifications

Test Voltage.....0.1 V, 100 KHz
 Operating Temp.....-40 °C to +125 °C
 (Temperature rise included)
 Storage Temperature .. -40 °C to +125 °C
 Moisture Sensitivity Level.....1
 ESD Classification (HBM).....N/A

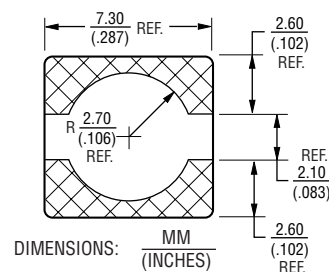
Materials

Core Material.....Ferrite
 WireEnameled Copper
 Adhesive.....Epoxy Resin
 Terminal FinishSnAgCu
 Rated Current.....Ind. drop of 35 % typ.
 at Isat
 Temperature Rise 30 °C max. at I rms
 Packaging.....1500 pcs. per reel

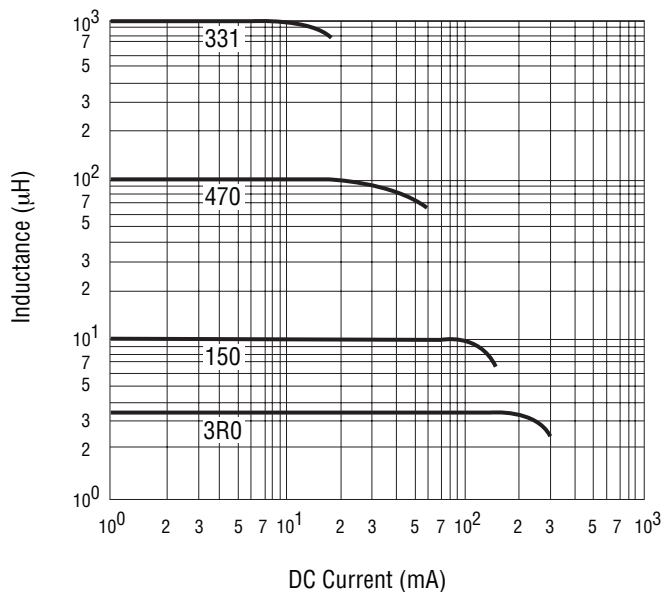
Product Dimensions



Recommended Layout



Inductance vs. Current



*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.

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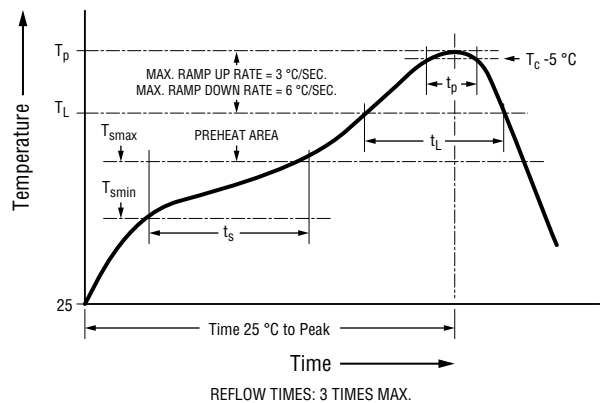
Applications

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

PM628S Series - Shielded SMD Power Inductors

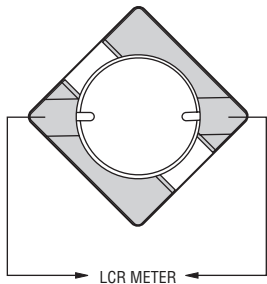
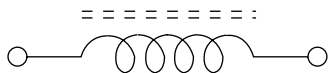
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Soldering Profile



Profile Feature	Pb Free Assembly
Preheat - Temperature Min. (T_{smin}) - Temperature Max. (T_{smax}) - Time(t_s) from T_{smin} to T_{smax}	150 °C 200 °C 60-120 seconds
Ramp-up Rate (T_L to T_p)	3 °C/second max.
Liquidous temperature (T_L) Time (t_L) maintained above T_L	217 °C 60-150 seconds
Classification Temperature (T_c)	250 °C
Time (t_p) at $T_c - 5\text{ °C}$ (T_p should be equal to or less than T_c)	< 30 seconds
Ramp-Down Rate (T_p to T_L)	6 °C/second max.
Time 25 °C to Peak Temperature	8 minutes max.

Electrical Schematic

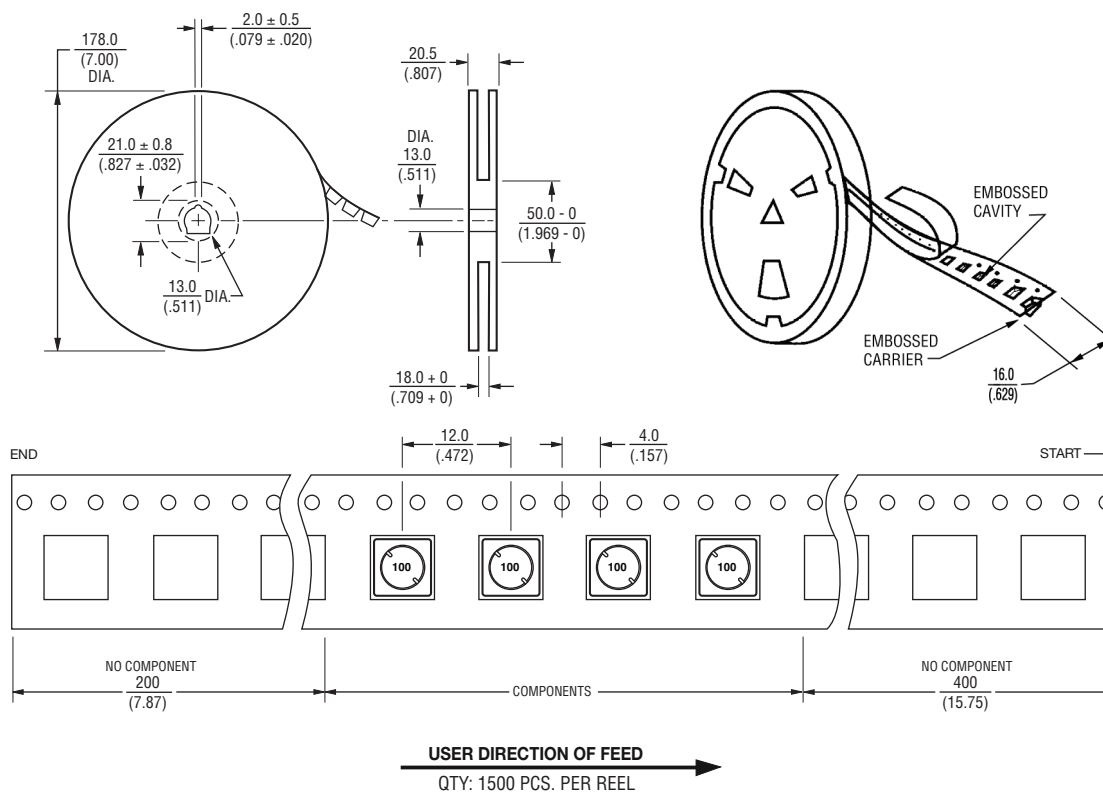


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Packaging Specifications



REV. 03/26

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