



### Features

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

### Additional Information

Click these links for more information:



## 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

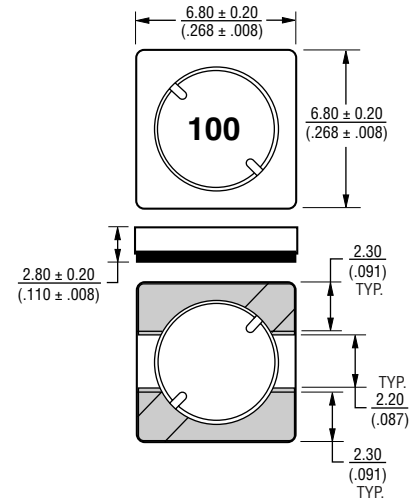
### General Specifications

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

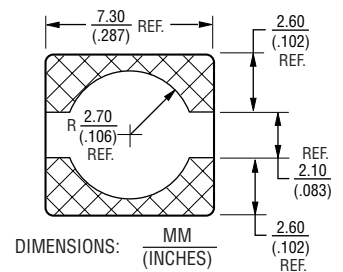
### Materials

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

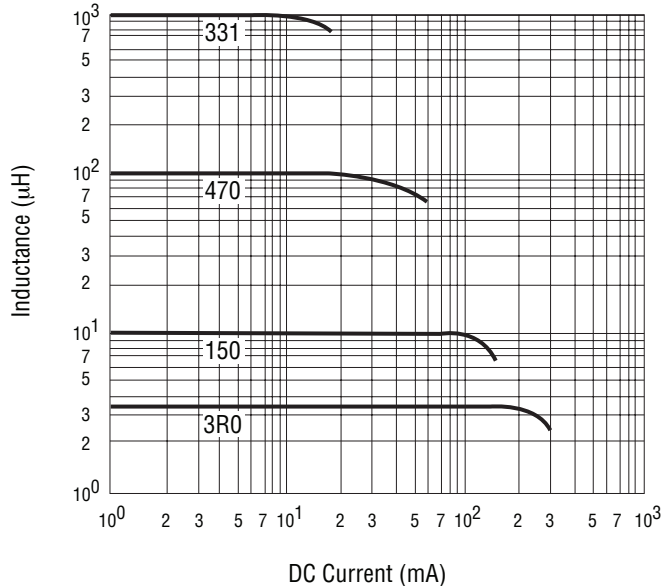
### Product Dimensions



### 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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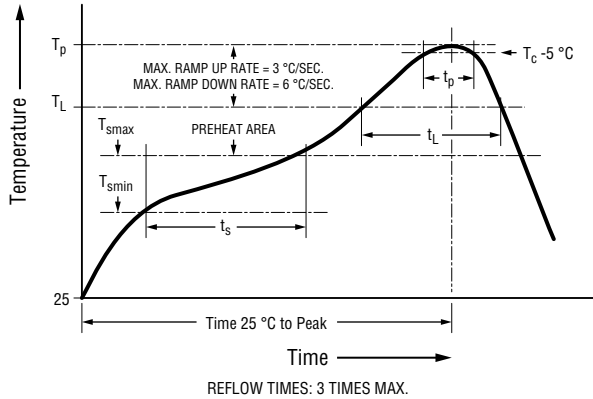
## Applications

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

## PM628S Series - Shielded SMD Power Inductors

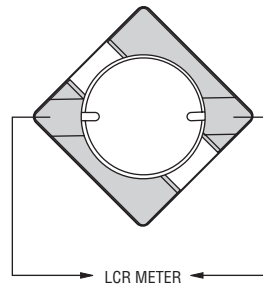
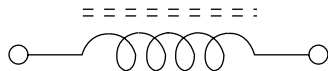
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### Soldering Profile



Profile Feature	Pb Free Assembly
Preheat <ul style="list-style-type: none"> <li>- Temperature Min. (T<sub>smin</sub>)</li> <li>- Temperature Max. (T<sub>smax</sub>)</li> <li>- Time (t<sub>s</sub>) from T<sub>smin</sub> to T<sub>smax</sub></li> </ul>	150 °C 200 °C 60-120 seconds
Ramp-up Rate (T <sub>L</sub> to T <sub>p</sub> )	3 °C/second max.
Liquidous temperature (T <sub>L</sub> ) Time (t <sub>L</sub> ) maintained above T <sub>L</sub>	217 °C 60-150 seconds
Classification Temperature (T <sub>c</sub> )	250 °C
Time (t <sub>p</sub> ) at T <sub>c</sub> - 5 °C (T <sub>p</sub> should be equal to or less than T <sub>c</sub> )	< 30 seconds
Ramp-Down Rate (T <sub>p</sub> to T <sub>L</sub> )	6 °C/second max.
Time 25 °C to Peak Temperature	8 minutes max.

### Electrical Schematic



Specifications are subject to change without notice.

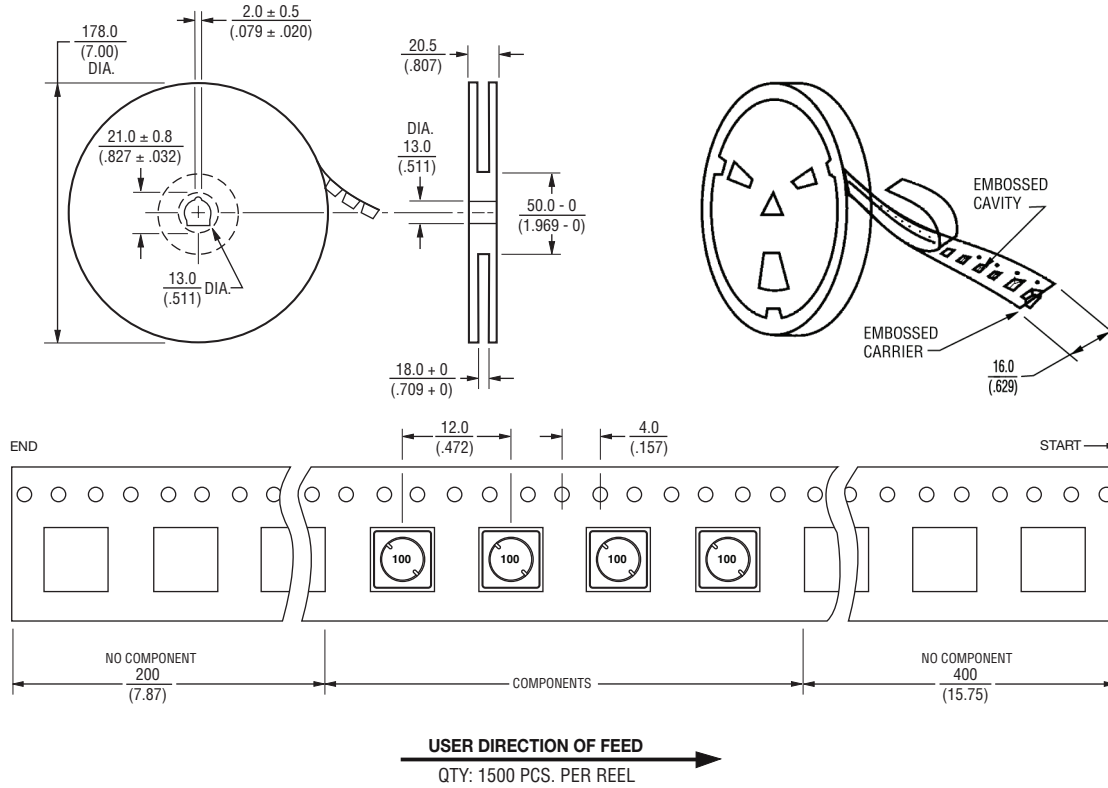
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# PM628S Series - Shielded SMD Power Inductors

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## Packaging Specifications



REV. 03/26

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