



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Features

- Formerly J.W. Miller® model
- Available in E12 values
- Inductance as low as 1.2 μH
- Current rating to 6.6 amps
- RoHS compliant*

Applications

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

PM127SH Series - Shielded SMD Power Inductors

Electrical Specifications

Bourns Part No.	Inductance 100 kHz		Q Typ.	Test Frequency (MHz)	SRF Typ. (MHz)	RDC Max. (m Ω)	I rms Max. (A)	I sat Typ. (A)
	(μH)	Tol. %						
PM127SH-1R2N-RC	1.2	-20 to +40	28	7.96	83	18.0	9.80	9.80
PM127SH-2R4N-RC	2.4	-20 to +40	20	7.96	45	10.0	9.20	10.50
PM127SH-3R5N-RC	3.5	-20 to +40	20	7.96	36	12.0	8.80	9.80
PM127SH-4R7N-RC	4.7	-20 to +40	22	7.96	30	15.5	8.20	8.80
PM127SH-6R1N-RC	6.1	-20 to +40	20	7.96	23	18.0	6.60	7.80
PM127SH-7R6N-RC	7.6	-20 to +40	15	7.96	21	20.0	5.90	6.50
PM127SH-100M-RC	10.0	± 20	24	2.52	17	19.5	6.00	6.30
PM127SH-120M-RC	12.0	± 20	26	2.52	15	28.0	5.60	6.60
PM127SH-150M-RC	15.0	± 20	26	2.52	13	28.5	5.20	5.00
PM127SH-180M-RC	18.0	± 20	24	2.52	12	35.0	4.80	4.60
PM127SH-220M-RC	22.0	± 20	20	2.52	11	38.6	4.30	4.10
PM127SH-270M-RC	27.0	± 20	26	2.52	10	52.0	3.90	3.70
PM127SH-330M-RC	33.0	± 20	28	2.52	9.5	57.0	3.50	3.30
PM127SH-390M-RC	39.0	± 20	24	2.52	8.5	70.0	3.20	3.10
PM127SH-470M-RC	47.0	± 20	24	2.52	7.5	80.0	2.90	2.80
PM127SH-560M-RC	56.0	± 20	24	2.52	7.0	100.0	2.60	2.50
PM127SH-680M-RC	68.0	± 20	20	2.52	6.5	120.0	2.40	2.30
PM127SH-820M-RC	82.0	± 20	20	0.796	5.0	130.0	2.30	2.20
PM127SH-101M-RC	100.0	± 20	18	0.796	4.5	150.0	2.10	2.00
PM127SH-121M-RC	120.0	± 20	16	0.796	4.3	200.0	1.95	1.95
PM127SH-151M-RC	150.0	± 20	24	0.796	4.1	270.0	1.85	1.90
PM127SH-181M-RC	180.0	± 20	24	0.796	4.0	300.0	1.75	1.88
PM127SH-221M-RC	220.0	± 20	24	0.796	3.4	400.0	1.60	1.70
PM127SH-271M-RC	270.0	± 20	20	0.796	3.1	450.0	1.20	1.60
PM127SH-331M-RC	330.0	± 20	18	0.796	2.9	600.0	1.10	1.40
PM127SH-391M-RC	390.0	± 20	20	0.796	2.7	680.0	1.60	1.40
PM127SH-471M-RC	470.0	± 20	20	0.796	2.2	880.0	0.90	1.25
PM127SH-561M-RC	560.0	± 20	20	0.796	2.0	960.0	0.80	1.15
PM127SH-681M-RC	680.0	± 20	26	0.796	1.7	1300.0	0.75	0.97
PM127SH-821M-RC	820.0	± 20	20	0.796	1.4	1500.0	0.70	0.94
PM127SH-102M-RC	1000.0	± 20	40	0.252	1.3	1700.0	0.68	0.80

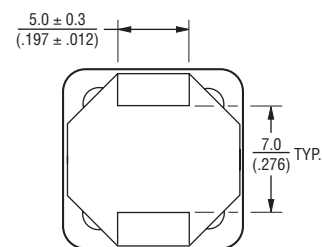
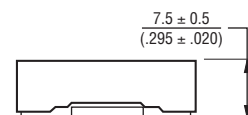
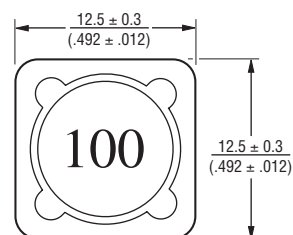
General Specifications

Test Voltage.....0.1 V
 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

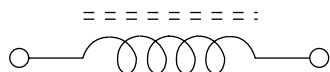
Core Ferrite DR and RI
 Wire Enameled copper wire 130
 Terminal Cu/Ni/Sn
 Rated Current
 Ind. drop 25 % typ. at Isat
 Temperature Rise 40 °C max.
 at rated I rms
 Packaging 400 pcs. per reel

Product Dimensions

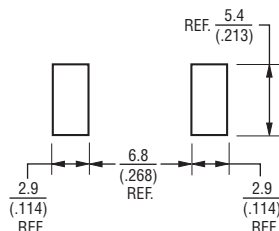


DIMENSIONS: $\frac{\text{MM}}{(\text{INCHES})}$

Electrical Schematic



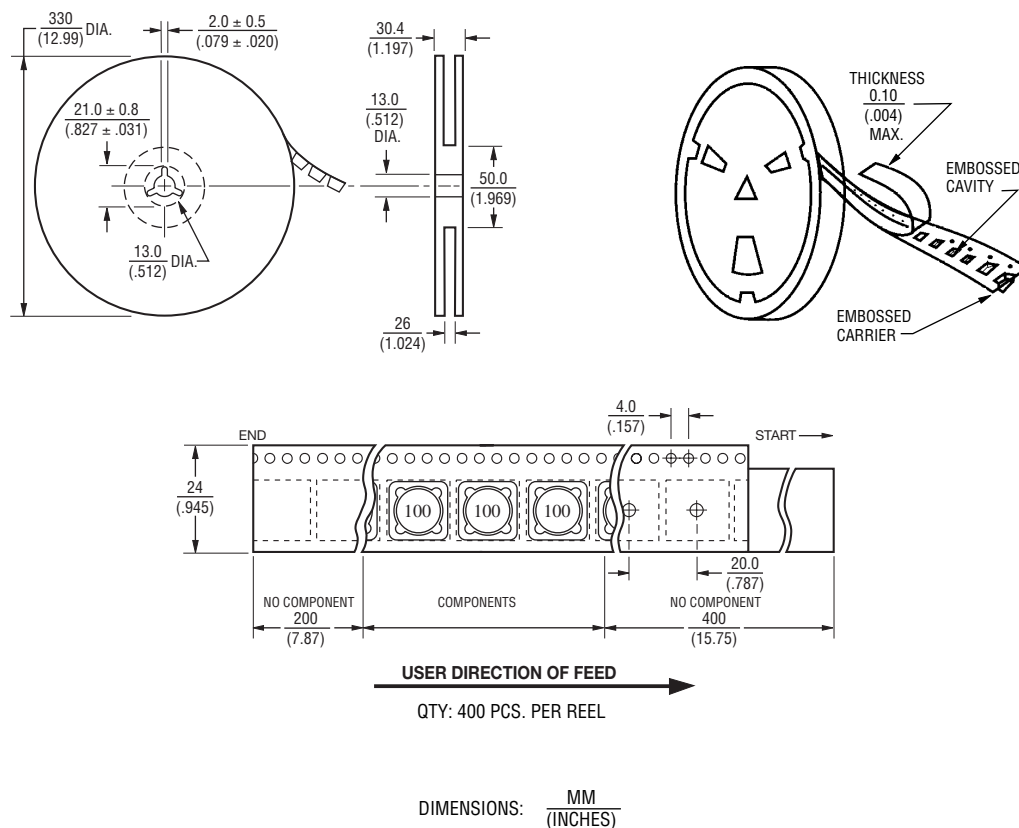
Recommended Layout



PM127SH Series - Shielded SMD Power Inductors

BOURNS®

Packaging Specifications



REV. 05/11

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