

Features

- Formerly J. W. Miller® model
- Height of 4.0 mm max.
- Current rating up to 3.5 A
- RoHS compliant*

Applications

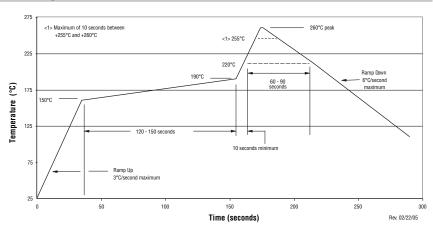
- Input/output of DC/DC converters
- Power supplies for:
 - · Portable communication equipment
 - · Camcorders
 - LCD TVs

PM638S Series - Shielded SMD Power Inductor

Electrical Specifications

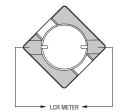
	Inductance 100 kHz		Q	Test Frequency	SRF	DCR Max.	Irms	Isat
Bourns Part No.	(μH)	Tol. %	Ref.	(MHz)	Typ. (MHz)	$(m\Omega)$	(A)	(A)
PM638S-3R3-RC	3.3	±30	9.8	7.96	75.9	20	3.50	3.60
PM638S-5R0-RC	5.0	±30	8.9	7.96	42.6	24	2.90	2.95
PM638S-6R2-RC	6.2	±30	9.0	7.96	42.3	27	2.50	2.60
PM638S-7R4-RC	7.4	±30	7.5	7.96	32.9	31	2.30	2.55
PM638S-8R2-RC	8.2	±30	7.4	7.96	29.6	34	2.20	2.45
PM638S-8R7-RC	8.7	±30	7.3	7.96	27.5	34	2.20	2.35
PM638S-100-RC	10	±30	8.8	2.52	24.9	38	2.00	2.05
PM638S-120-RC	12	±30	8.3	2.52	17.9	53	1.70	1.95
PM638S-150-RC	15	±30	8.6	2.52	18.0	57	1.60	1.90
PM638S-180-RC	18	±30	8.0	2.52	13.8	92	1.50	1.70
PM638S-220-RC	22	±30	8.8	2.52	13.9	96	1.30	1.60
PM638S-270-RC	27	±30	7.7	2.52	12.5	109	1.20	1.30
PM638S-330-RC	33	±30	8.6	2.52	12.5	124	1.10	1.20
PM638S-390-RC	39	±30	8.3	2.52	11.8	138	1.00	1.10
PM638S-470-RC	47	±30	8.5	2.52	10.4	155	0.95	1.00
PM638S-560-RC	56	±30	8.2	2.52	8.8	202	0.85	0.90
PM638S-680-RC	68	±30	7.4	2.52	7.5	234	0.75	0.87
PM638S-820-RC	82	±30	7.6	2.52	7.6	324	0.70	0.75
PM638S-101-RC	100	±30	6.7	0.796	6.2	358	0.65	0.68

Soldering Profile



Electrical Schematic







WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

General Specifications

Test Voltage 0.1 V, 100 KHz Reflow Soldering230 °C; 50 sec max. Operating Temp.-40 °C to +125 °C (Temperature rise included)

Storage Temperature .. -40 °C to +125 °C Resistance to Soldering Heat

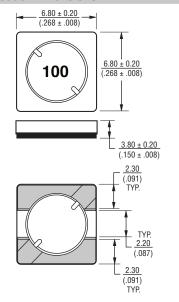
......260 °C for 10 sec. Moisture Sensitivity Level.....2 ESD Classification (HBM).....N/A

Materials

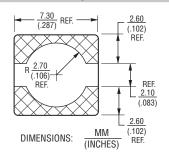
Core N	1ater	ial		.Ferrite
Wire			Enameled	Copper
Adhesi	ve		Epoxy	y Resin
Termin	al		A	g/Ni/Sn
Rated	Curr	ent	Ind. drop of 35	% typ.
				at Isat
_		Б.	00 °O 1	

Temperature Rise 30 °C typ. at Irms Packaging......1000 pcs. per reel

Product Dimensions

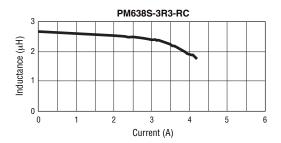


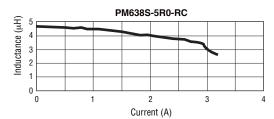
Recommended Layout

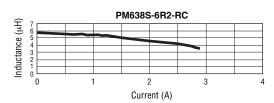


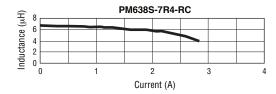
BOURNS

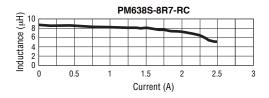
Inductance vs. Current

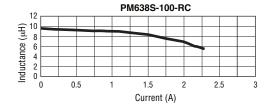


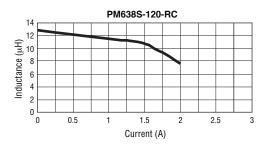


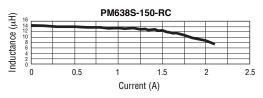


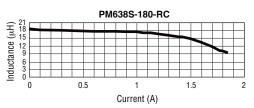


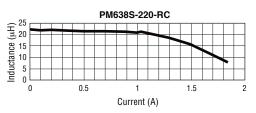


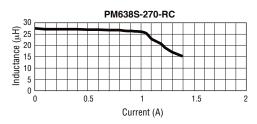


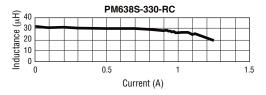












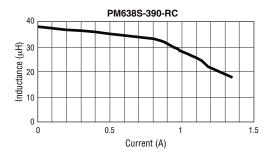
Specifications are subject to change without notice.

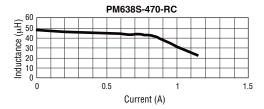
Users should verify actual device performance in their specific applications.

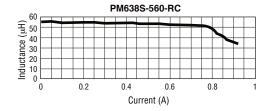
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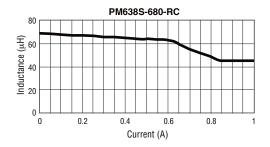
PM638S Series - Shielded SMD Power Inductor

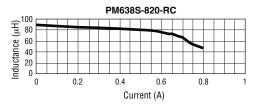
Inductance vs. Current

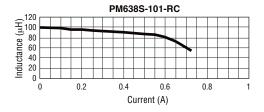








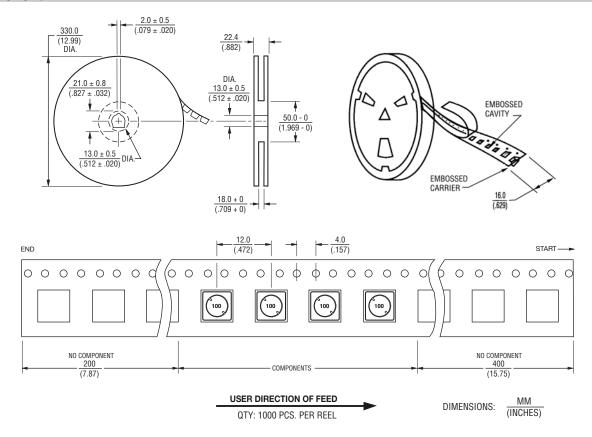




PM638S Series - Shielded SMD Power Inductor

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Packaging Specifications



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REV. 03/18

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