



Features

- Formerly **J. W. Miller**® model
- Available in E12 series
- Low profile of only 2.5 mm
- Low inductance values
- RoHS compliant*

Applications

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

PM32 Series - SMD Power Inductors

Electrical Specifications

Bourns Part No.	Inductance 100 kHz		Q Ref.	Test Frequency (MHz)	SRF Min. (MHz)	RDC Max. (Ω)	I rms Max. (A)	I sat Typ. (A)
	(μH)	Tol. %						
PM32-1R0M-RC	1.0	± 20	20	7.96	125.0	0.06	2.100	2.700
PM32-1R4M-RC	1.4	± 20	22	7.96	95.0	0.07	1.500	2.300
PM32-1R8M-RC	1.8	± 20	23	7.96	85.0	0.08	1.800	2.000
PM32-2R2M-RC	2.2	± 20	22	7.96	75.0	0.09	1.650	1.850
PM32-2R7M-RC	2.7	± 20	22	7.96	72.0	0.10	1.500	1.700
PM32-3R3M-RC	3.3	± 20	23	7.96	68.0	0.11	1.400	1.600
PM32-3R9M-RC	3.9	± 20	24	7.96	50.0	0.12	1.300	1.500
PM32-4R7M-RC	4.7	± 20	18	7.96	45.0	0.15	1.200	1.350
PM32-5R6M-RC	5.6	± 20	18	7.96	42.0	0.16	1.100	1.300
PM32-6R8M-RC	6.8	± 20	18	7.96	40.0	0.18	1.000	1.200
PM32-8R2M-RC	8.2	± 20	16	7.96	35.0	0.20	0.900	1.050
PM32-100M-RC	10.0	± 20	18	2.52	34.0	0.25	0.800	0.900
PM32-120M-RC	12.0	± 20	15	2.52	33.0	0.28	0.750	0.850
PM32-150M-RC	15.0	± 20	20	2.52	32.0	0.40	0.650	0.800
PM32-180M-RC	18.0	± 20	18	2.52	28.0	0.46	0.580	0.750
PM32-220M-RC	22.0	± 20	23	2.52	22.0	0.66	0.520	0.650
PM32-270M-RC	27.0	± 20	23	2.52	20.0	0.75	0.480	0.550
PM32-330M-RC	33.0	± 20	20	2.52	18.0	0.85	0.420	0.500
PM32-390M-RC	39.0	± 20	24	2.52	18.0	1.12	0.380	0.450
PM32-470M-RC	47.0	± 20	23	2.52	17.0	1.27	0.360	0.400
PM32-560M-RC	56.0	± 20	18	2.52	16.0	1.45	0.340	0.350
PM32-680M-RC	68.0	± 20	24	2.52	14.0	1.85	0.300	0.320
PM32-820M-RC	82.0	± 20	24	2.52	12.0	2.10	0.280	0.300
PM32-101M-RC	100.0	± 20	40	0.796	10.0	2.85	0.260	0.280
PM32-121M-RC	120.0	± 20	40	0.796	10.0	3.20	0.220	0.250
PM32-151M-RC	150.0	± 20	38	0.796	9.0	4.60	0.200	0.230
PM32-181M-RC	180.0	± 20	45	0.796	8.5	5.00	0.185	0.210
PM32-221M-RC	220.0	± 20	40	0.796	8.0	5.70	0.170	0.190
PM32-271M-RC	270.0	± 20	45	0.796	7.0	8.60	0.150	0.170
PM32-331M-RC	330.0	± 20	40	0.796	6.0	10.00	0.130	0.150
PM32-391M-RC	390.0	± 20	40	0.796	5.5	10.80	0.120	0.140
PM32-471M-RC	470.0	± 20	42	0.796	5.0	14.30	0.105	0.130

Additional Information

Click these links for more information:



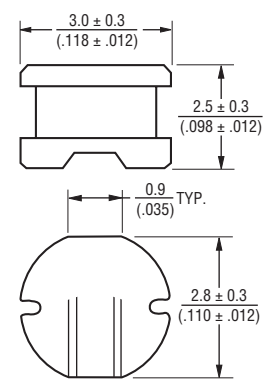
General Specifications

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

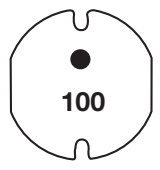
Materials

Core Ferrite DR
 Wire Enamelled copper wire
 Terminal Finish SnAgCu
 Rated Current Ind. drop 10 % typ. at Isat
 Temperature Rise 40 °C max.
 at rated Irms
 Packaging 1500 pcs. per reel

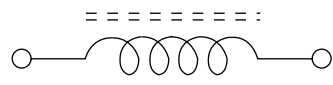
Product Dimensions



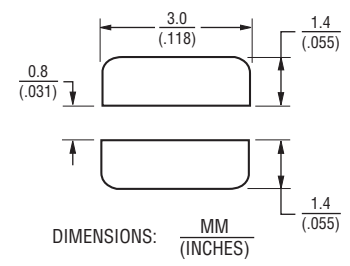
Typical Part Marking



Electrical Schematic



Recommended Layout



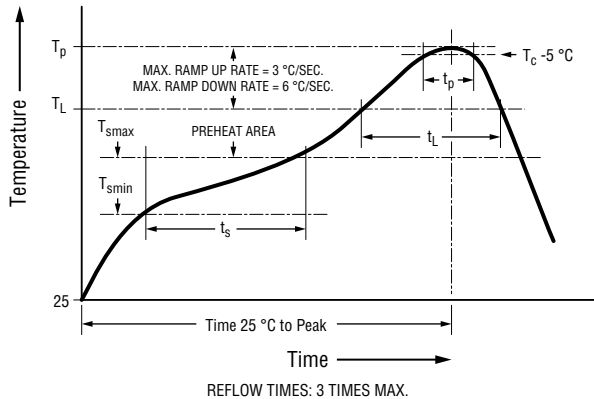
CALIFORNIA WARNING: Can expose you to lead, a carcinogen and reproductive toxicant. See www.P65Warnings.ca.gov

*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. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at www.bourns.com/docs/legal/disclaimer.pdf.

PM32 Series - SMD Power Inductors

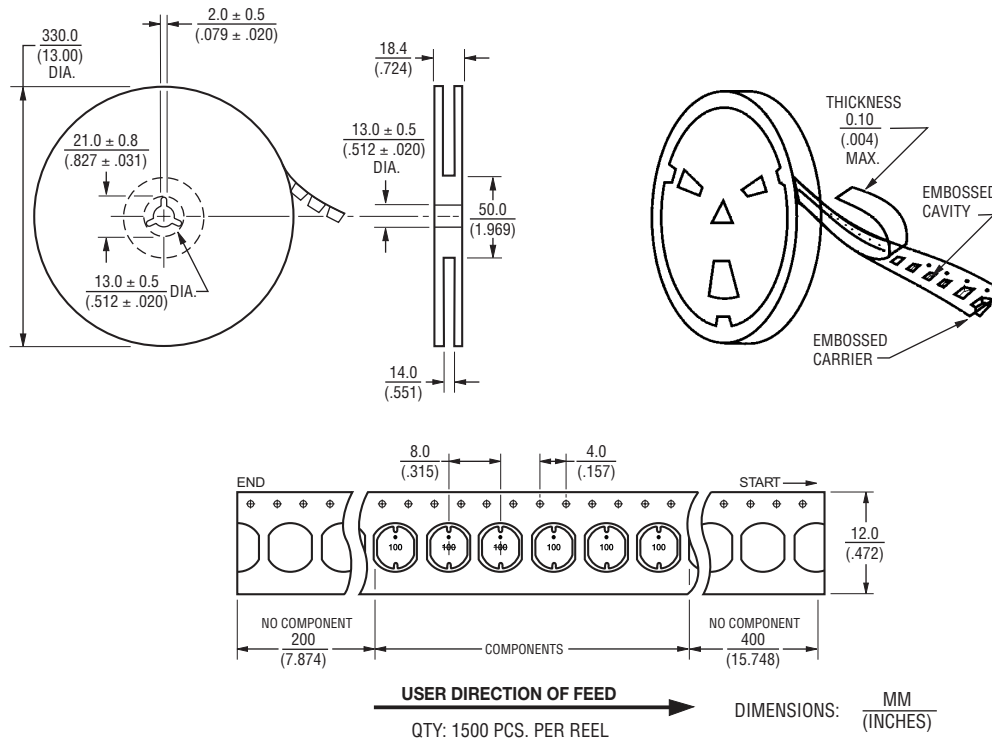


Soldering Profile



Profile Feature	Pb Free Assembly
Preheat <ul style="list-style-type: none"> - 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)	260 °C
Time (t_p) at $T_c - 5 °C$ (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.

Packaging Specifications



REV. 03/26

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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