



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 1 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

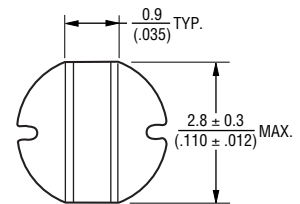
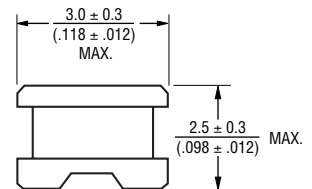
General Specifications

Test Voltage.....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 5 sec.
 Moisture Sensitivity Level.....2
 ESD Classification (HBM)..... N/A

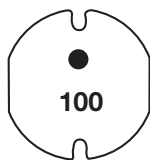
Materials

Core Ferrite DR
 Wire Enameled copper wire 130
 Terminal Ag/Ni/Sn
 Rated Current
 Ind. drop 10 % typ. at Isat
 Temperature Rise 40 °C max.
 at rated I rms
 Packaging..... 1500 pcs. per reel

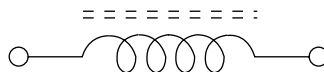
Product Dimensions



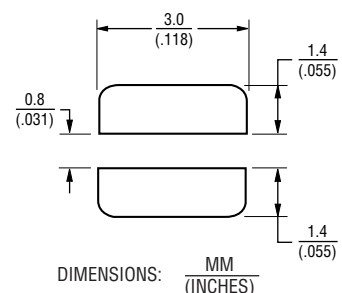
Typical Part Marking



Electrical Schematic



Recommended Layout

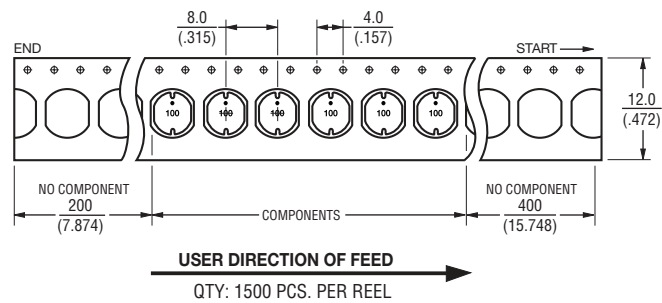
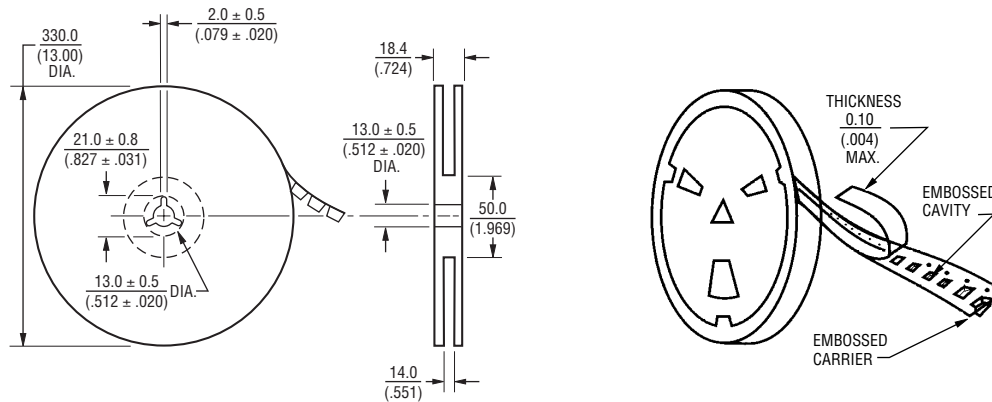


*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.
 Specifications are subject to change without notice.
 The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.
 Users should verify actual device performance in their specific applications.

PM32 Series - SMD Power Inductors

BOURNS®

Packaging Specifications



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

REV. 03/18

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