

Features

- Formerly J.W. Miller® model
- Available in E12 series
- Low profile of only 3.2 mm
- Low inductance values
- RoHS compliant*

Applications

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

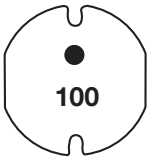
BOURNS®

PM43 Series - SMD Power Inductor

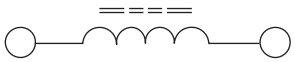
Electrical Specifications

Bourns Part No.	Inductance 1 kHz (µH)	Inductance 1 kHz Tol. %	Q Ref.	Test Frequency (MHz)	SRF Min. (MHz)	RDC (Ω)	I rms Max. (A)	I sat Typ. (A)
PM43-1R0M-RC	1.0	± 20	28	7.96	150	0.033	3.80	5.50
PM43-1R4M-RC	1.4	± 20	28	7.96	110	0.038	3.30	5.10
PM43-1R8M-RC	1.8	± 20	28	7.96	90	0.042	2.91	4.40
PM43-2R2M-RC	2.2	± 20	28	7.96	80	0.047	2.60	3.90
PM43-2R7M-RC	2.7	± 20	28	7.96	75	0.052	2.43	3.50
PM43-3R3M-RC	3.3	± 20	28	7.96	65	0.058	2.15	3.00
PM43-3R9M-RC	3.9	± 20	28	7.96	55	0.076	1.98	2.70
PM43-4R7M-RC	4.7	± 20	28	7.96	50	0.094	1.70	2.60
PM43-5R6M-RC	5.6	± 20	28	7.96	45	0.10	1.60	2.40
PM43-6R8M-RC	6.8	± 20	28	7.96	40	0.12	1.41	2.10
PM43-8R2M-RC	8.2	± 20	28	7.96	36	0.13	1.26	1.90
PM43-100M-RC	10	± 20	28	2.52	33	0.18	1.15	1.70
PM43-120M-RC	12	± 20	28	2.52	30	0.21	1.05	1.60
PM43-150M-RC	15	± 20	28	2.52	28	0.24	0.92	1.40
PM43-180M-RC	18	± 20	25	2.52	23	0.34	0.84	1.30
PM43-220M-RC	22	± 20	25	2.52	20	0.38	0.76	1.20
PM43-270K-RC	27	± 10	23	2.52	17	0.52	0.71	1.00
PM43-330K-RC	33	± 10	23	2.52	15	0.54	0.64	0.99
PM43-390K-RC	39	± 10	20	2.52	14	0.59	0.59	0.92
PM43-470K-RC	47	± 10	20	2.52	13	0.84	0.54	0.78
PM43-560K-RC	56	± 10	20	2.52	12	0.94	0.50	0.74
PM43-680K-RC	68	± 10	20	2.52	11	1.12	0.46	0.68

Typical Part Marking



Electrical Schematic



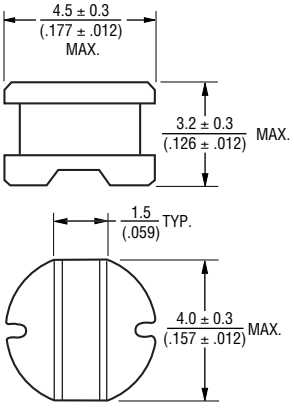
General Specifications

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 Irms
Packaging ..... 1500 pcs. per reel

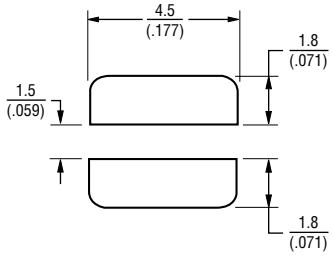
Product Dimensions



BOURNS®

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The Americas: Tel: +1-951 781-5500 • Email: americus@bourns.com
www.bourns.com

Recommended Layout



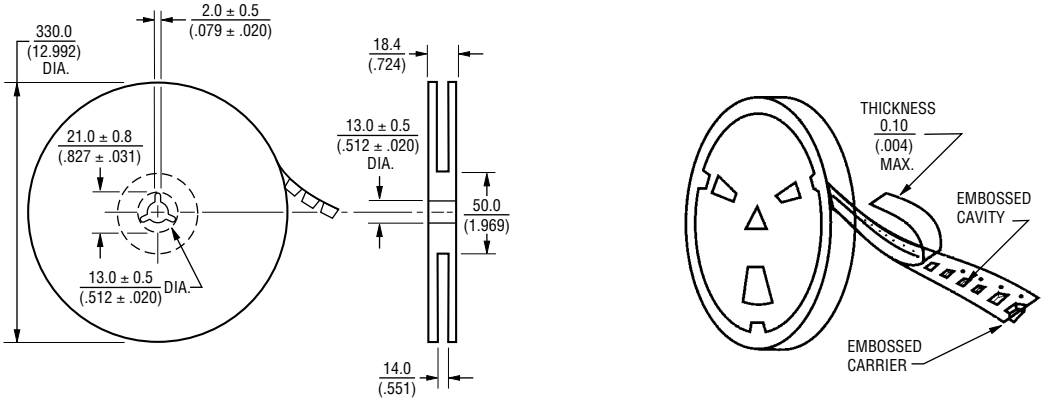
DIMENSIONS: MM / (INCHES)

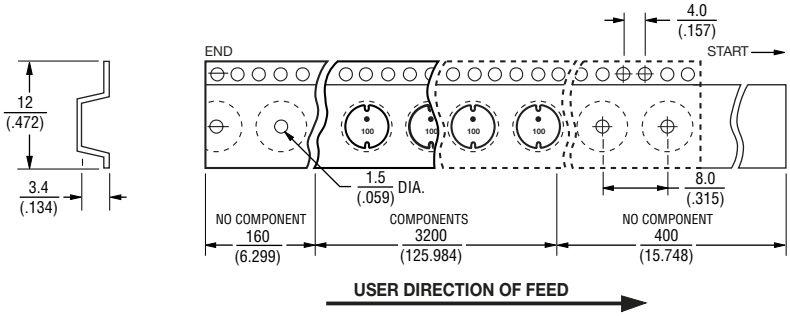
WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

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

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Packaging Specifications





QTY: 1500 PCS. PER REEL

DIMENSIONS: MM / (INCHES)

REV. 03/18

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