

Features

- Formerly J. W. $Miller^{\circ}$ 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

PM43 Series - SMD Power Inductor

Electrical Specifications

	Inductance 1 kHz		Q	Test Frequency	SRF Min.	RDC	l rms Max.	l sat Typ.
Bourns Part No.	(µH)	Tol. %	Ref.	(MHz)	(MHz)	(Ω)	(A)	(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



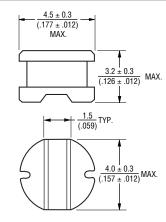
Electrical Schematic



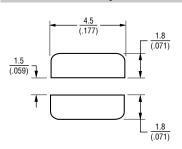
General Specifications

Test Voltage1	v
Reflow Soldering 230 °C, 50 sec. max	٢.
Operating Temperature	
40 °C to +125 °C	
(Temperature rise included	I)
Storage Temperature	_
40 °C to +125 °C	С
Resistance to Soldering Heat	
).
Moisture Sensitivity Level	
ESD Classification (HBM)N//	A
Materials	
Materials Core Ferrite DF	R
Core Ferrite DF	0
Core Ferrite DF Wire Enameled copper wire 130	0
Core Ferrite DF Wire Enameled copper wire 130 Terminal Ag/Ni/Sr Rated Current 	0 n at
Core Ferrite DF Wire Enameled copper wire 130 Terminal Ag/Ni/Sr Rated Current	0 n at
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Core Ferrite DF Wire Enameled copper wire 130 Terminal Ag/Ni/Sr Rated Current Ind. drop 10 % typ. at Isa Temperature Rise	0 n at <.

Product Dimensions



Recommended Layout



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

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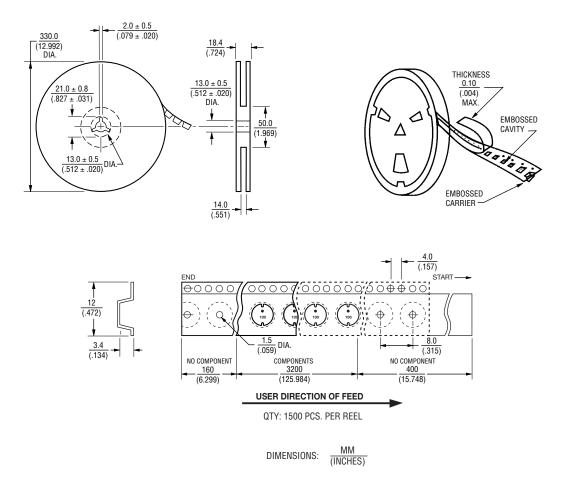


* RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011. Specifications are subject to change without notice. Users should verify actual device performance in their specific applications. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at www.bourns.com/docs/legal/disclaimer.pdf

PM43 Series - SMD Power Inductor

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Packaging Specifications



REV. 03/18

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