

BOURNS®

Features

- Formerly J.W. Miller® model
- Available in E12 series
- Unit height of 5.2 mm
- Current up to 4.5 A
- RoHS compliant*

Applications

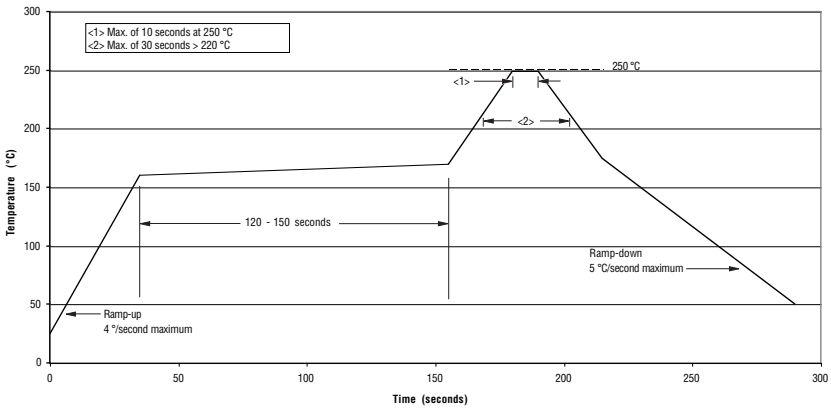
- Input/output of DC/DC converters
- Power supplies for:
  - Portable communication equipment
  - Camcorders
  - LCD TVs
  - Car radios

PM3316S Series - Shielded Power Inductors

Electrical Specifications

Bourns Part No.	Inductance 1 kHz (µH)	Inductance 1 kHz Tol. %	Q Ref.	Test Frequency (MHz)	SRF Min. (MHz)	RDC (Ω)	Irms Max. (A)	Isat Typ. (A)
PM3316S-1R0M-RC	1.0	± 20	25	7.96M	120	0.017	4.50	8.00
PM3316S-1R5M-RC	1.5	± 20	25	7.96M	100	0.020	3.60	7.00
PM3316S-2R2M-RC	2.2	± 20	25	7.96M	90.0	0.027	3.10	6.10
PM3316S-3R3M-RC	3.3	± 20	25	7.96M	75.0	0.039	3.30	3.90
PM3316S-4R7M-RC	4.7	± 20	25	7.96M	50.0	0.040	2.50	3.80
PM3316S-6R8M-RC	6.8	± 20	22	7.96M	35.0	0.075	2.20	2.80
PM3316S-100M-RC	10	± 20	48	2.52M	30.0	0.065	2.00	3.00
PM3316S-150M-RC	15	± 20	40	2.52M	20.0	0.085	1.70	2.10
PM3316S-220M-RC	22	± 20	42	2.52M	18.0	0.100	1.40	1.90
PM3316S-330M-RC	33	± 20	40	2.52M	15.0	0.160	1.20	1.56
PM3316S-470M-RC	47	± 20	35	2.52M	12.0	0.190	1.00	1.30

Soldering Profile



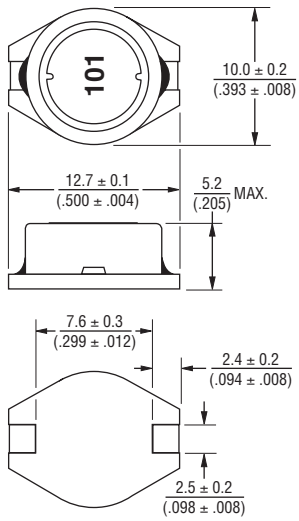
General Specifications

Test Voltage.....1 V
Reflow soldering.... 250 °C; 10 sec max.
(In compliance with JEDEC, J-STD-020C, Table 4-2)
Operating Temperature
.....-40 °C to +125 °C
(Temperature rise included)
Storage Temperature
.....-40 °C to +125 °C
Resistance to Soldering Heat
..... 250 °C, 10 sec. max.

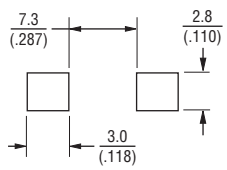
Materials

Core.....Ferrite DR and RI core
Wire .....Enameled copper
Base .....DAP
Terminal.....Cu/Ni/Sn
Rated Current
.....Ind. drop 10 % typ. at Isat
Temperature Rise
.....40 °C max. at rated Irms
Packaging..... 500 pcs. per reel

Product Dimensions



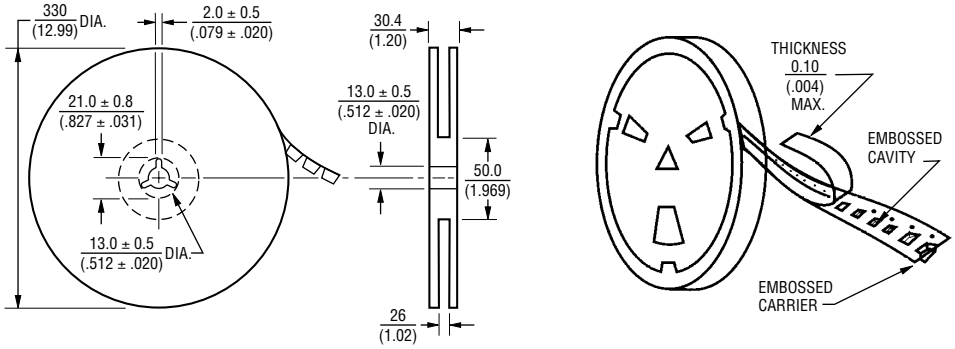
Recommended Layout

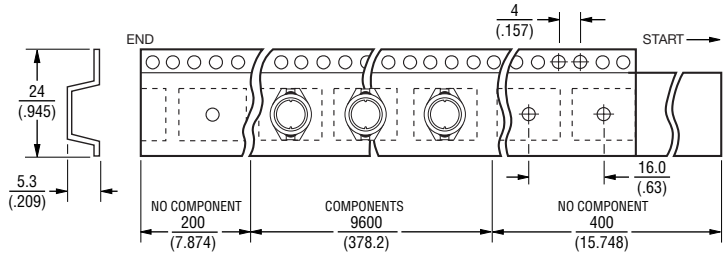


DIMENSIONS: MM / (INCHES)

*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.
Customers should verify actual device performance in their specific applications..

Packaging Specifications





QTY: 500 PCS. PER REEL

DIMENSIONS: MM / (INCHES)

REV. 05/11

Specifications are subject to change without notice.
Customers should verify actual device performance in their specific applications..