Features

- Formerly J.W. Miller® model
- Available in E12 series
- Small diameter of only 5.8 mm maximum
- Profile of 4.8 mm
- RoHS compliant*

Applications

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

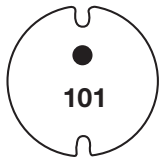
BOURNS®

PM54 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)	Irms Max. (A)	Isat Typ. (A)
PM54-100M-RC	10	± 20	30	2.52	23	0.10	1.45	2.00
PM54-120M-RC	12	± 20	30	2.52	22	0.12	1.40	1.90
PM54-150M-RC	15	± 20	30	2.52	20	0.14	1.30	1.60
PM54-180M-RC	18	± 20	30	2.52	18	0.15	1.25	1.50
PM54-220M-RC	22	± 20	30	2.52	16	0.19	1.10	1.40
PM54-270M-RC	27	± 15	28	2.52	14	0.22	1.00	1.30
PM54-330L-RC	33	± 15	24	2.52	13	0.25	0.88	1.10
PM54-390L-RC	39	± 15	24	2.52	13	0.32	0.80	1.00
PM54-470L-RC	47	± 15	22	2.52	12	0.37	0.72	1.00
PM54-560K-RC	56	± 10	22	2.52	11	0.42	0.68	0.90
PM54-680K-RC	68	± 10	22	2.52	10	0.52	0.62	0.84
PM54-820K-RC	82	± 10	20	2.52	9	0.60	0.58	0.75
PM54-101K-RC	100	± 10	20	0.796	9	0.70	0.52	0.68
PM54-121K-RC	120	± 10	22	0.796	7	0.93	0.48	0.60
PM54-151K-RC	150	± 10	20	0.796	6	1.10	0.40	0.54
PM54-181K-RC	180	± 10	20	0.796	6	1.38	0.38	0.50
PM54-221K-RC	220	± 10	20	0.796	6	1.57	0.35	0.44

Typical Part Marking



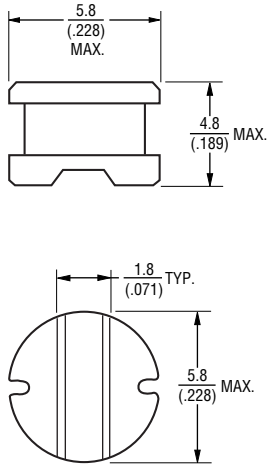
General Specifications

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.

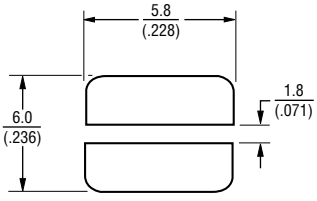
Materials

Core..... Ferrite DR core
Wire .....Enameled copper
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



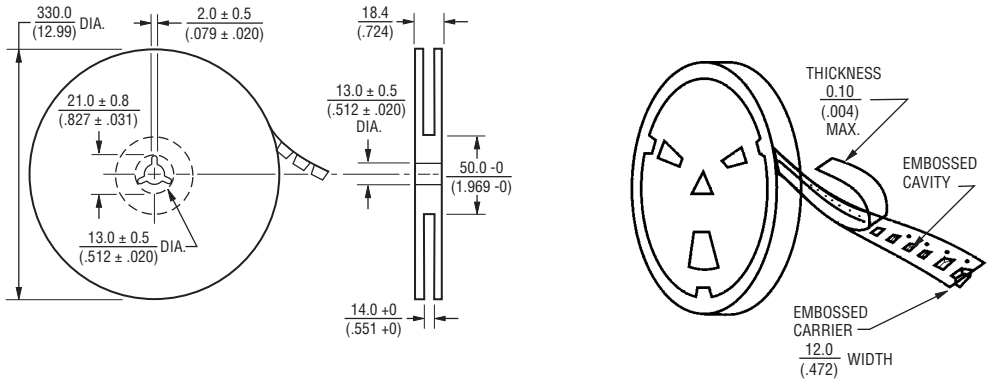
Recommended Layout

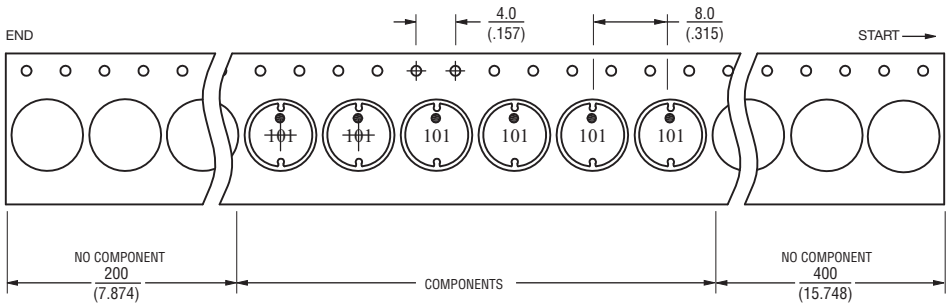


DIMENSIONS: MM (INCHES)

*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.
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.

Packaging Specifications





USER DIRECTION OF FEED

QTY: 1500 PCS. PER REEL

DIMENSIONS: MM / (INCHES)

REV. 08/15