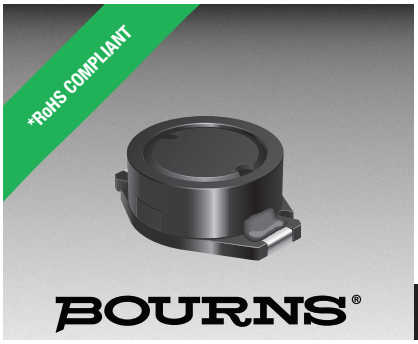


Features

- Formerly J.W. Miller® model
- Available in E12 series
- Unit height of 6.8 mm
- Current up to 8 A Isat
- RoHS compliant*

Applications

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

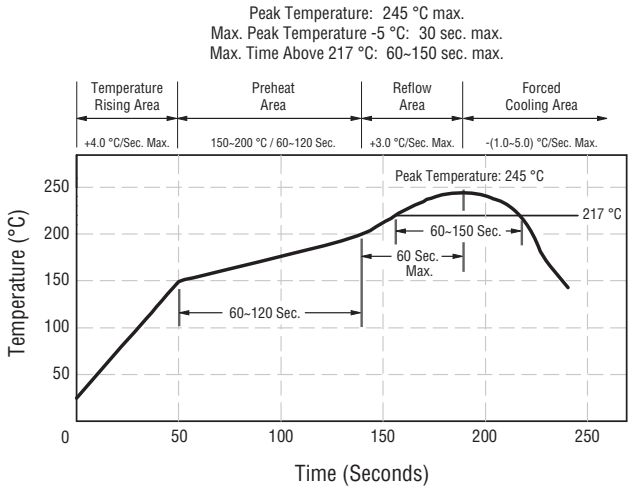
BOURNS®

PM5022S Series - Shielded Power Inductor

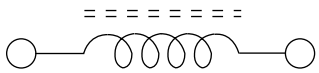
Electrical Specifications

Bourns Part No.	Inductance 100 kHz (µH)	Inductance 100 kHz Tol. %	Q Ref.	Test Frequency (MHz)	SRF Typ. (MHz)	RDC -20 % (Ω)	I rms Max. (A)	I sat Typ. (A)
PM5022S-100M-RC	10	± 20	56	2.52	19.0	0.033	4.00	8.20
PM5022S-150M-RC	15	± 20	53	2.52	17.5	0.039	3.60	7.20
PM5022S-220M-RC	22	± 20	51	2.52	16.0	0.053	3.00	6.20
PM5022S-330M-RC	33	± 20	44	2.52	10.0	0.083	2.50	5.00
PM5022S-470M-RC	47	± 20	40	2.52	8.0	0.110	2.00	4.20
PM5022S-680M-RC	68	± 20	37	2.52	6.0	0.170	1.60	3.40
PM5022S-101M-RC	100	± 20	40	0.796	4.6	0.270	1.30	2.60
PM5022S-151M-RC	150	± 20	39	0.796	4.3	0.400	1.05	2.30
PM5022S-221M-RC	220	± 20	29	0.796	3.5	0.510	1.00	1.90
PM5022S-331M-RC	330	± 20	30	0.796	3.0	0.790	0.80	1.40
PM5022S-471M-RC	470	± 20	27	0.796	2.4	1.000	0.64	1.30
PM5022S-681M-RC	680	± 20	19	0.796	2.1	1.470	0.54	1.10
PM5022S-102M-RC	1000	± 20	46	0.252	1.5	2.160	0.45	0.90

Soldering Profile



Electrical Schematic



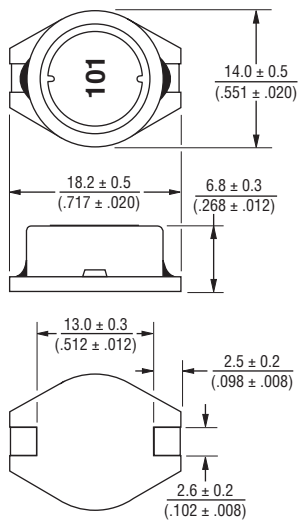
General Specifications

Test Voltage.....0.1 V
Operating Temperature
.....-40 °C to +125 °C
(Temperature rise included)
Storage Temperature .. -45 °C to +125 °C
Moisture Sensitivity Level.....1
ESD Classification (HBM).....N/A

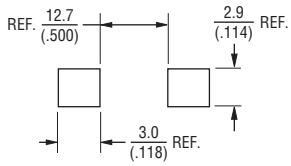
Materials

Core.....Ferrite core
Wire .....Enameled copper
Base .....LCP E4008
Terminal Finish .....Sn
Rated Current
.....Ind. drop 10 % typ. at Isat
Temp. Rise.....40 °C typ. at rated Irms
Packaging.....250 pcs. per reel

Product Dimensions



Recommended Layout



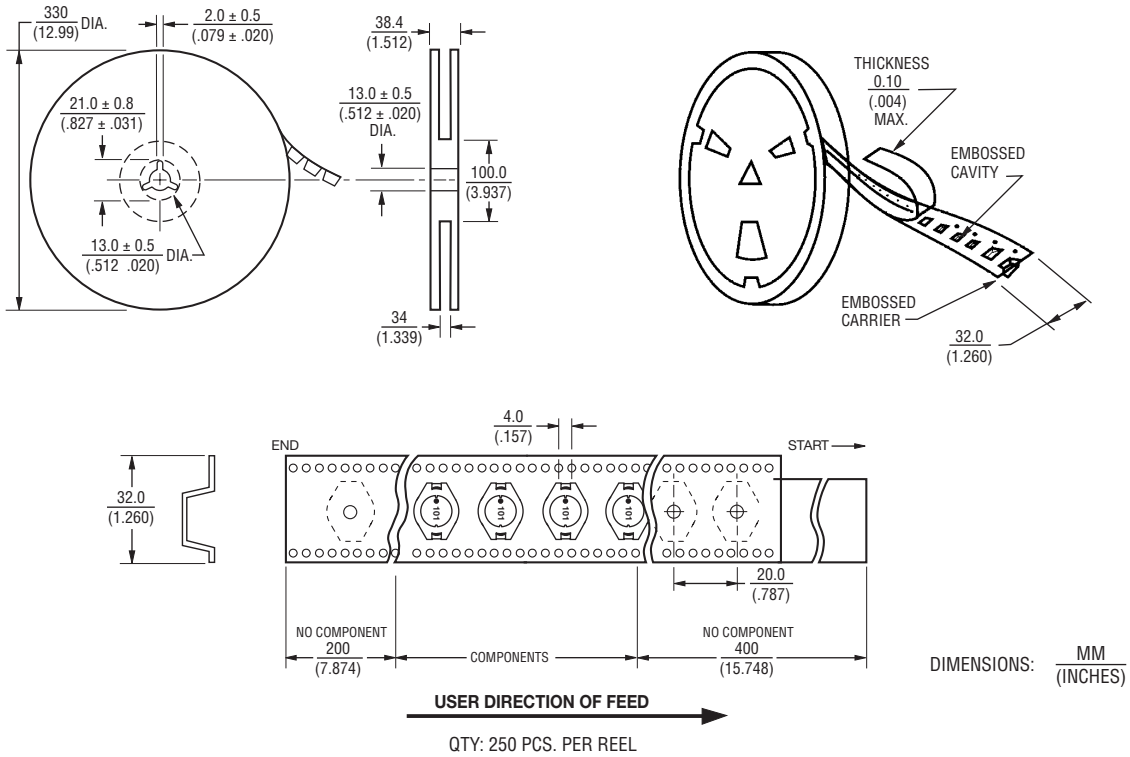
DIMENSIONS: MM / (INCHES)

CALIFORNIA WARNING: Can expose you to lead, a carcinogen and reproductive toxicant. See www.P65Warnings.ca.gov

*RoHS Directive 2015/863, Mar 31, 2015 and Annex.
Specifications are subject to change without notice.
Users should verify actual device performance in their specific applications.
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Packaging Specifications



QTY: 250 PCS. PER REEL

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REV. 03/26

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