



Features

- Formerly J.W. Miller® model
- Available in E6 series
- Low profile of only 5.0 mm
- Inductance as low as 1.0 μ H
- RoHS compliant*

Applications

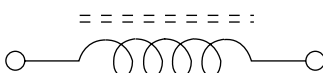
- Input/output of DC/DC converters
- Power supplies for:
 - Portable communication equipment
 - Camcorders
 - LCD TVs
 - Car radios

PM3316 Series - SMD Power Inductors

Electrical Specifications

Bourns Part No.	Inductance 1 kHz		Q Ref.	Test Frequency (MHz)	SRF Min. (MHz)	RDC (Ω)	I rms Max. (A)	I sat Typ. (A)
	(μ H)	Tol. %						
PM3316-1R0M-RC	1	± 20	20	10	137	0.007	7.50	9.00
PM3316-1R5M-RC	1.5	± 20	50	3	95	0.009	6.50	8.00
PM3316-2R2M-RC	2.2	± 20	50	3	65	0.012	6.10	7.00
PM3316-3R3M-RC	3.3	± 20	50	4	54	0.015	5.00	6.40
PM3316-4R7M-RC	4.7	± 20	50	4	42	0.019	4.50	5.40
PM3316-6R8M-RC	6.8	± 20	50	3	31	0.030	3.40	4.50
PM3316-100M-RC	10	± 20	50	3	26	0.050	2.90	3.70
PM3316-150M-RC	15	± 20	50	3	22	0.060	2.50	3.00
PM3316-220M-RC	22	± 20	40	3	18	0.10	2.00	2.50
PM3316-330M-RC	33	± 20	25	1	14	0.12	1.80	2.00
PM3316-470M-RC	47	± 20	25	1	12	0.19	1.40	1.60
PM3316-680M-RC	68	± 20	25	1	11	0.24	1.20	1.40
PM3316-101M-RC	100	± 20	30	0.05	8	0.33	1.00	1.20
PM3316-151M-RC	150	± 20	30	0.05	6	0.59	0.80	1.00
PM3316-221M-RC	220	± 20	33	0.05	5	0.78	0.70	0.80
PM3316-331M-RC	330	± 20	33	0.05	4	1.15	0.55	0.60
PM3316-471M-RC	470	± 20	57	0.05	4	1.70	0.45	0.50
PM3316-681M-RC	680	± 20	57	0.05	3	2.60	0.35	0.40
PM3316-102M-RC	1000	± 20	81	0.07	2	3.90	0.30	0.35

Electrical Schematic



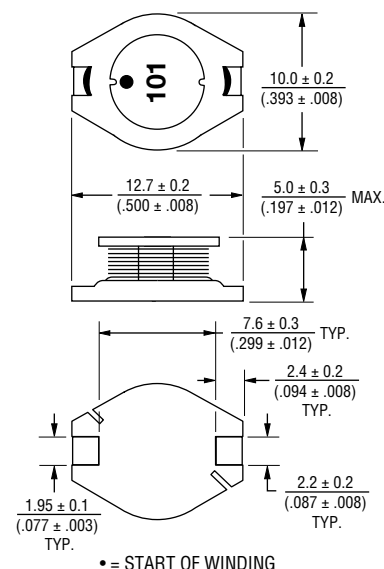
General Specifications

Test Voltage 0.1 V
 Reflow soldering 250 °C; 10 sec max.
 (In compliance with JEDEC,
 J-STD-020C, Table 4-2)
 Operating Temperature
 -55 °C to +125 °C
 (Temperature rise included)
 Storage Temperature
 -55 °C to +125 °C
 Resistance to Soldering Heat
 250 °C, 10 sec. max.

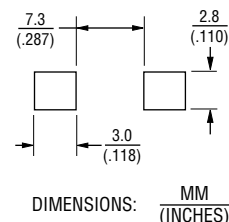
Materials

Core Ferrite DR
 Wire Enameled copper
 Base DAP
 Terminal Cu/Sn
 Rated Current
 Ind. drop 10 % typ. at Isat
 Temperature Rise 15 °C max.
 at rated I rms
 Packaging 500 pcs. per reel

Product Dimensions



Recommended Layout

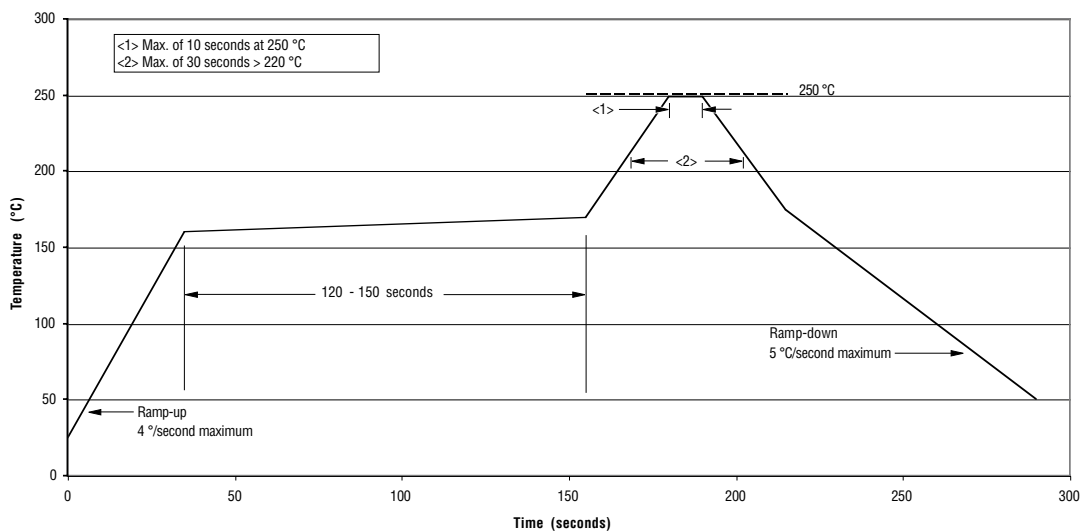


*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.
 Specifications are subject to change without notice.
 The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.
 Users should verify actual device performance in their specific applications.

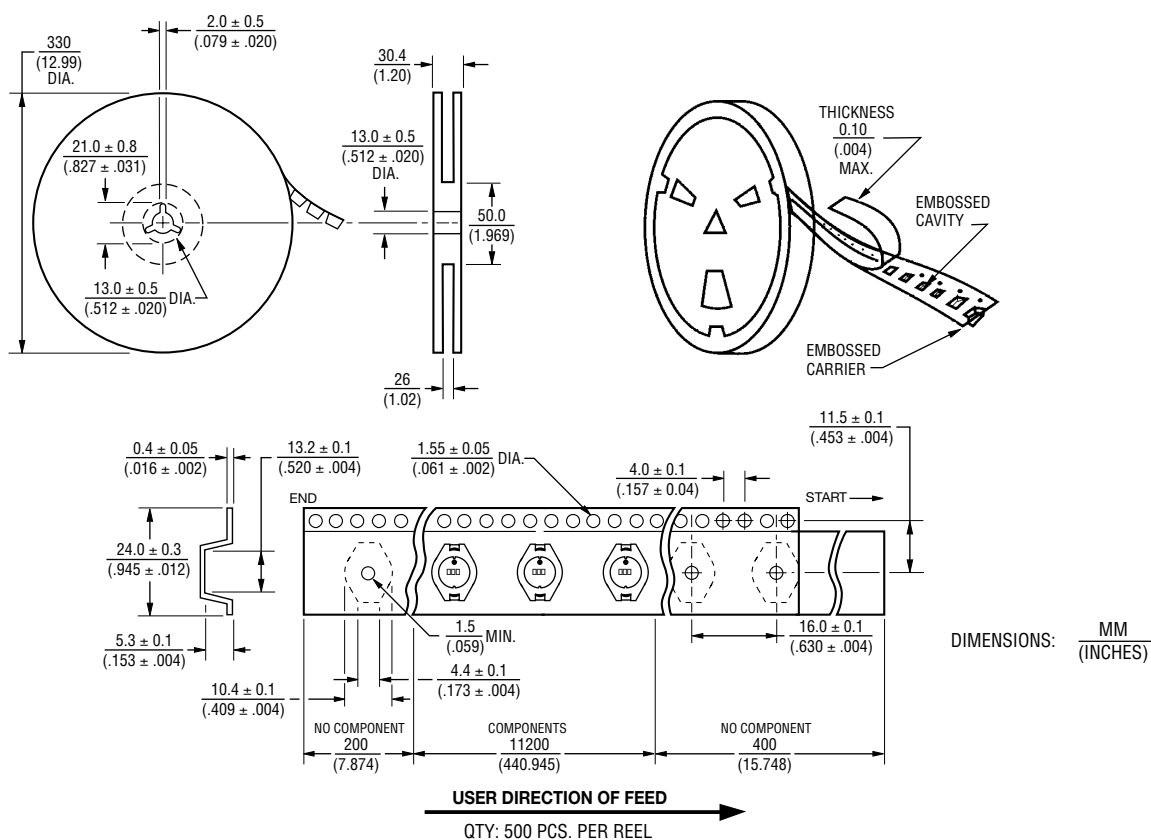
PM3316 Series - SMD Power Inductors

BOURNS®

Soldering Profile



Packaging Specifications



REV. 05/17

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