

Features

- Formerly J.W.Miller® model
- Available in E6 series
- Low profile of only 6.6 mm
- Inductance as low as 1 µH
- RoHS compliant*

Applications

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

PM5022 Series - SMD Power Inductor

Electrical Specifications

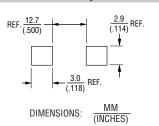
	Inductance 100 kHz		Test	SRF	Torra	RDC	I rms Max.	l sat
Bourns Part No.	(μH)	Tol. %	Q Ref.	Frequency (MHz)	Typ. (MHz)	(mΩ)	(A)	Тур. (A)
PM5022-1R0M-RC	1.0	± 20	21	7.96	100.0	4.0	10.0	30.00
PM5022-2R2M-RC	2.2	± 20	22	7.96	55.0	6.8	9.00	22.00
PM5022-3R3M-RC	3.3	± 20	22	7.96	40.0	9.8	7.60	17.00
PM5022-5R6M-RC	5.6	± 20	23	7.96	30.0	15.0	6.40	12.80
PM5022-8R2M-RC	8.2	± 20	22	7.96	27.0	20.0	7.00	9.40
PM5022-100M-RC	10	± 20	22	2.52	25.0	25.0	5.30	10.00
PM5022-150M-RC	15	± 20	20	2.52	17.0	35.0	4.30	8.00
PM5022-220M-RC	22	± 20	22	2.52	13.0	45.0	3.60	6.70
PM5022-330M-RC	33	± 20	24	2.52	11.0	68.0	3.00	5.40
PM5022-470M-RC	47	± 20	22	2.52	9.0	95.0	2.50	4.60
PM5022-680M-RC	68	± 20	22	2.52	8.0	130.0	2.10	3.80
PM5022-101<1>-RC	100	± 10	25	0.796	7.0	190.0	1.70	3.20
PM5022-151<1>-RC	150	± 10	23	0.796	5.0	270.0	1.40	2.60
PM5022-221<1>-RC	220	± 10	20	0.796	4.5	420.0	1.10	2.20
PM5022-331<1>-RC	330	± 10	18	0.796	3.5	580.0	1.00	1.80
PM5022-471<1>-RC	470	± 10	15	0.796	3.0	820.0	0.80	1.50
PM5022-681<1>-RC	680	± 10	12	0.796	2.5	1200.0	0.70	1.20
PM5022-102<1>-RC	1000	± 10	10	0.252	2.0	1800.0	0.50	1.00

<1> Enter tolerance code: $K = \pm 10 \%$, $M = \pm 20 \%$.

Recommended Layout



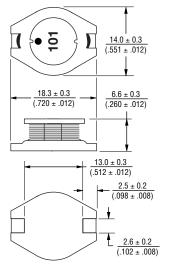
Electrical Schematic



ESD Classification (HBM).....N/A

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

Product Dimensions



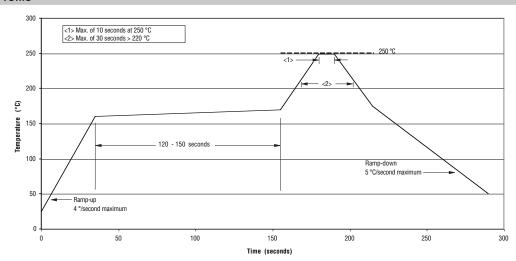
• = START OF WINDING



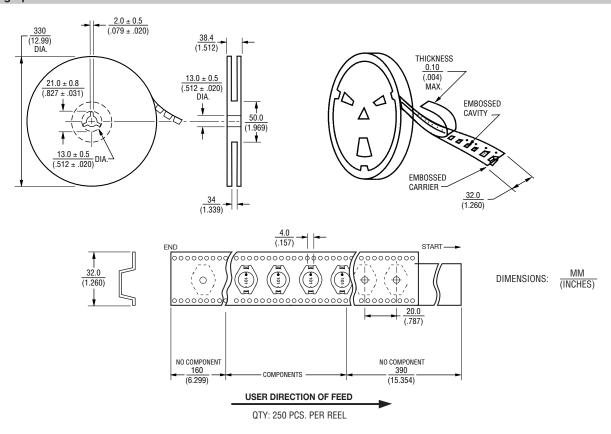
PM5022 Series - SMD Power Inductor

BOURNS

Soldering Profile



Packaging Specifications



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