

Features

- Formerly **J.W. Miller** * model
- Available in E12 values
- Height of 4.5 mm maximum
- Current rating to 6.35 amps
- RoHS compliant*

Applications

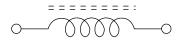
- Input/output of DC/DC converters
- Power supplies for:
 - · Portable communication equipment
 - Camcorders
 - LCD TVs

PM124SH Series - Shielded SMD Power Inductors

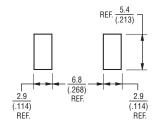
Electrical Specifications

	Inductance 100 kHz		Q	Test Frequency	SRF Typ.	RDC Max.	I rms Max.	I sat Typ.
Bourns Part No.	(μH)	Tol. %	Тур.	(MHz)	(MHz)	$(m\Omega)$	(A)	(A)
PM124SH-3R9Y-RC	3.9	± 30	14	7.96	39	15.0	6.35	6.20
PM124SH-4R7M-RC	4.7	± 20	16	7.96	33	18.0	6.00	5.60
PM124SH-6R8M-RC	6.8	± 20	14	7.96	34	23.0	5.20	4.70
PM124SH-8R2M-RC	8.2	± 20	10	7.96	32	27.0	4.50	4.30
PM124SH-100M-RC	10	± 20	17	2.52	27	32.0	4.00	4.00
PM124SH-120M-RC	12	± 20	16	2.52	25	38.0	3.80	3.60
PM124SH-150M-RC	15	± 20	16	2.52	22	47.0	3.50	3.20
PM124SH-180M-RC	18	± 20	14	2.52	20	55.0	3.20	3.00
PM124SH-220M-RC	22	± 20	18	2.52	16	67.5	3.00	2.60
PM124SH-270M-RC	27	± 20	16	2.52	15.5	85.0	2.55	2.35
PM124SH-330M-RC	33	± 20	19	2.52	15	97.0	2.30	2.10
PM124SH-390M-RC	39	± 20	14	2.52	14	120.0	2.15	2.00
PM124SH-470M-RC	47	± 20	19	2.52	13	135.0	2.00	1.80
PM124SH-560M-RC	56	± 20	16	2.52	12	170.0	1.80	1.65
PM124SH-680M-RC	68	± 20	19	2.52	11	200.0	1.50	1.50
PM124SH-820M-RC	82	± 20	16	2.52	10	250.0	1.35	1.35
PM124SH-101M-RC	100	± 20	14	0.796	8	300.0	1.25	1.20
PM124SH-121M-RC	120	± 20	12	0.796	7.8	370.0	1.20	1.15
PM124SH-151M-RC	150	± 20	12	0.796	7.5	440.0	1.10	1.05
PM124SH-181M-RC	180	± 20	12	0.796	7.0	550.0	0.98	0.95
PM124SH-221M-RC	220	± 20	12	0.796	6.6	660.0	0.92	0.90
PM124SH-271M-RC	270	± 20	10	0.796	6.0	780.0	0.80	0.80
PM124SH-331M-RC	330	± 20	12	0.796	5.5	950.0	0.75	0.75

Electrical Schematic



Recommended Layout



General Specifications

Test Voltage0.1 V Reflow Soldering .. 230 °C, 50 sec. max. **Operating Temperature**

.....-40 °C to +125 °C (Temperature rise included)

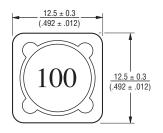
Storage Temperature .. -40 °C to +125 °C Resistance to Soldering Heat

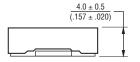
......260 °C for 10 sec. Moisture Sensitivity Level.....2 ESD Classification (HBM).....N/A

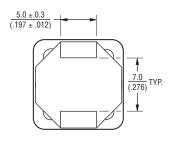
Materials

CoreFerrite DR and RI Wire Enameled copper wire 130 TerminalCu/Ni/Sn Rated CurrentInd. drop 25 % typ. at Isat Temperature Rise40 °C max. at rated Irms Packaging.....500 pcs. per reel

Product Dimensions







DIMENSIONS:

MM (INCHES)

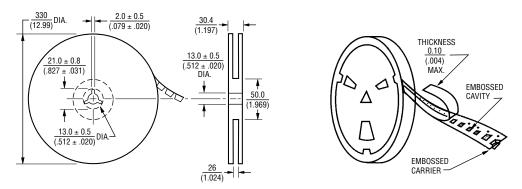


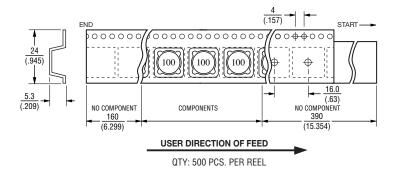
WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

*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. Users should verify actual device performance in their specific applications. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at www.bourns.com/docs/legal/disclaimer.pdf

PM124SH Series - Shielded SMD Power Inductors **BOURNS**

Packaging Specifications





DIMENSIONS: $\frac{MM}{(INCHES)}$

BOURNS®

Asia-Pacific: Tel: +886-2 2562-4117 • Email: asiacus@bourns.com

EMEA: Tel: +36 88 520 390 • Email: eurocus@bourns.com

The Americas: Tel: +1-951 781-5500 • Email: americus@bourns.com

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