

Features

- Shielded construction for low radiation
- High rated current
- Low DCR
- RoHS compliant* and halogen free**

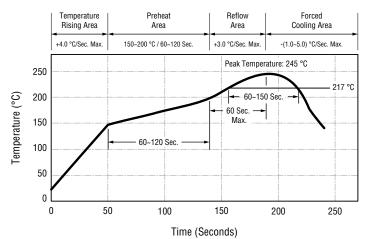
SPB1007 Series – Power Bead Inductors

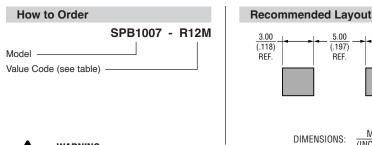
Electrical Specifications @ 25 °C

	Inductance @ 100 kHz / 0.1 V		DCR (mΩ)	DCR (mΩ)	Irms (A)	Isat (A)
Bourns Part No.	L (nH)	Tol. %	Тур.	Max.	Тур.	Typ.
SPB1007-R12M	115.0	20	0.28	0.35	61.0	94.0
SPB1007-R15M	150.0	20	0.28	0.35	61.0	76.0
SPB1007-R17M	175.0	20	0.28	0.35	61.0	66.0
SPB1007-R22M	215.0	20	0.28	0.35	61.0	50.0
SPB1007-R23M	230.0	20	0.28	0.35	61.0	48.0
SPB1007-R27M	270.0	20	0.28	0.35	61.0	40.0
SPB1007-R30M	300.0	20	0.28	0.35	61.0	35.0

Soldering Profile









RoHS Directive 2015/863, Mar 31, 2015 and Annex.

** Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less. 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.

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5.00

(.197)

REF

DIMENSIONS:

3.00

(.118)

REF.

2.40

(.094)

REF. MM

(INCHES)

Additional Information

Click these links for more information:



General Specifications

Operating Temperature

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

(Component Mounted)

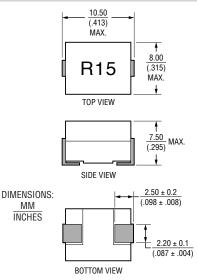
.....-40 °C to +125 °C Temperature Rise 40 °C at rated Irms¹ Rated Current

..... Inductance drops 20 % at Isat Moisture Sensitivity Level1 ESD Classification (HBM).....N/A ¹ Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

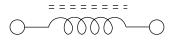
Materials

Core	Ferrite
Flat Wire	Copper
Terminal Finish	Ni/Sn
Packaging 500 pcs.	per 13-inch reel

Product Dimensions

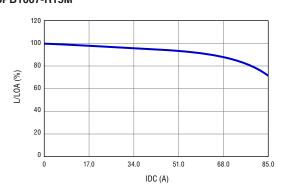


Electrical Schematic

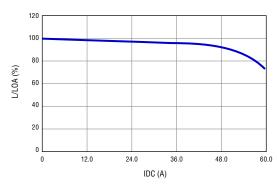


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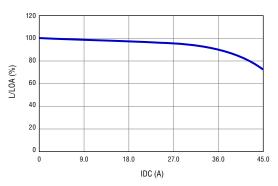
Typical Percentage of Inductance vs. Current Curves SPB1007-R15M



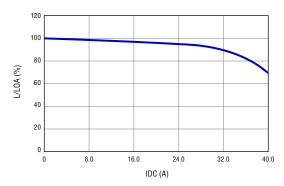
SPB1007-R22M



SPB1007-R27M



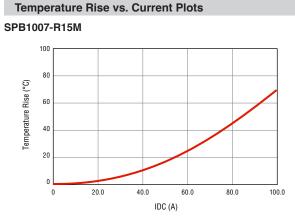
SPB1007-R30M



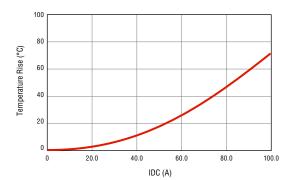
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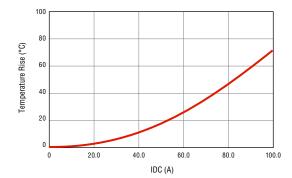
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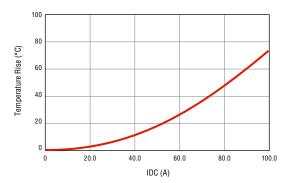










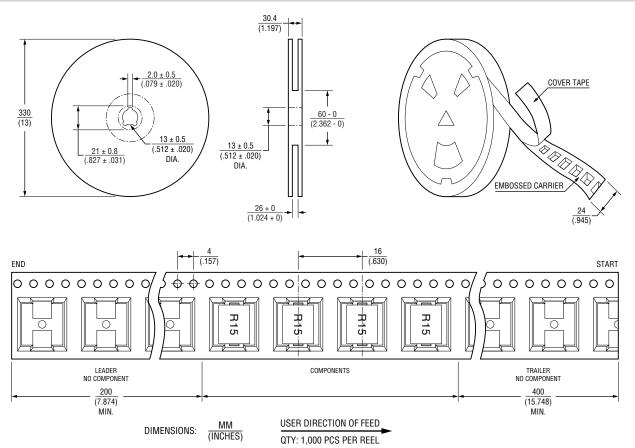


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Packaging Specifications



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