

Features

- Shielded construction for low radiation
- Vertical-mount configuration
- Extremely high current
- Low buzz noise
- Inductance range: 90 to 150 nH
- RoHS compliant* and halogen free**

Applications

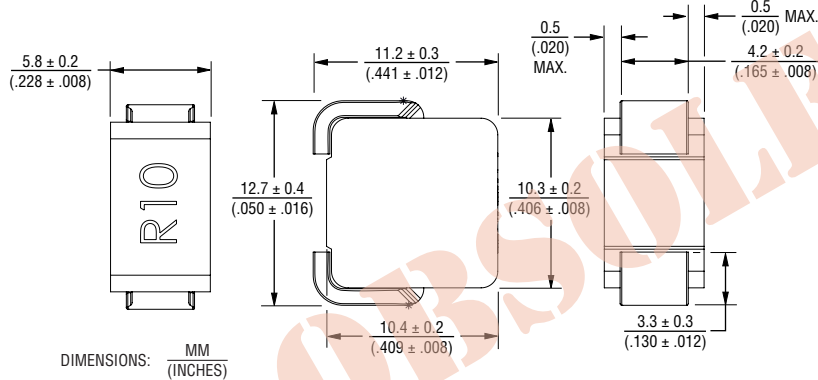
- Servers and workstations
- Data centers
- Data networking and storage systems
- Notebook and desktop computers
- Graphic cards and battery powered systems

SRP1060VR Series – Shielded Power Inductors

Electrical Specifications @ 25 °C

Bourns Part Number	Inductance @100 kHz / 1 V		DCR Typ. ±7 % (mΩ)	Irms Typ. (A)	Isat1 Typ. (A)	Isat2 Typ. (A)
	L (μH)	Tol. (%)				
SRP1060VR-90NM	0.09	20	0.21	90.0	95.0	135.0
SRP1060VR-R10M	0.10	20	0.21	90.0	93.0	133.0
SRP1060VR-R12M	0.12	20	0.21	90.0	91.0	130.0
SRP1060VR-R15M	0.15	20	0.21	90.0	87.0	120.0

Product Dimensions



Additional Information

Click these links for more information:



General Specifications

Operating Temperature -40 °C to +125 °C
(Temperature rise included)
Storage Temperature -40 °C to +125 °C
Temperature Rise 40 °C typ. at rated Irms
Rated Current Inductance drops 20 % at Isat1 and 30 % at Isat2
Moisture Sensitivity Level..... 1
ESD Classification (HBM)..... N/A

Materials

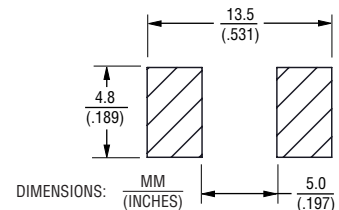
Core..... Metal alloy powder
Wire Enameled copper
Terminal Finish Sn
Packaging..... 300 pcs. per reel

How to Order

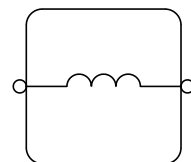
SRP1060VR - 90NM

Model _____
Value Code (see table) _____

Recommended Layout



Electrical Schematic



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

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

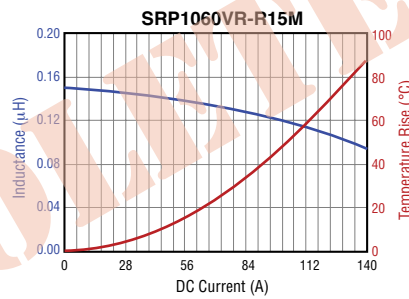
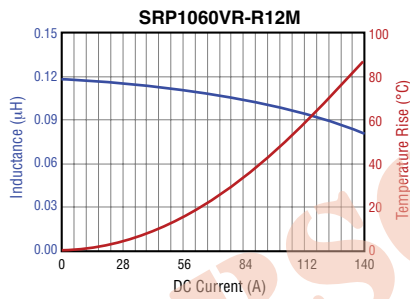
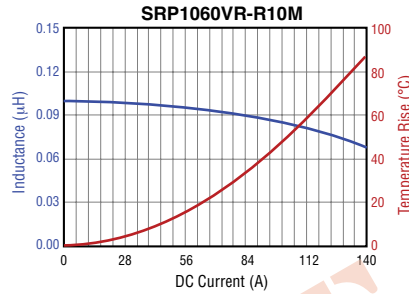
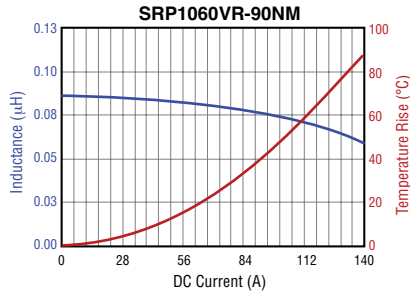
** Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

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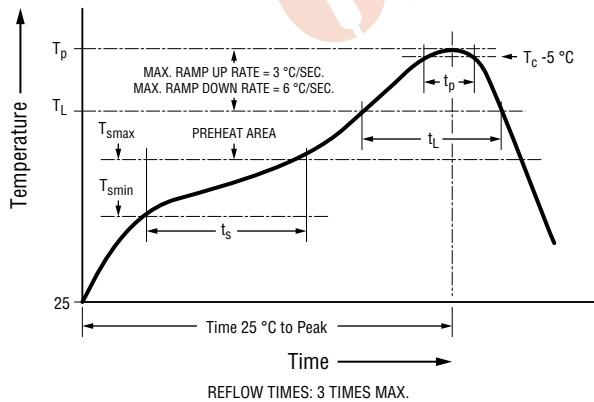
SRP1060VR Series – Shielded Power Inductors

BOURNS®

Inductance vs. IDC



Soldering Profile



Profile Feature	Pb Free Assembly
Preheat	150 °C 200 °C 60-120 seconds
<ul style="list-style-type: none"> - Temperature Min. (T_{smin}) - Temperature Max. (T_{smax}) - Time (t_s) from T_{smin} to T_{smax} 	
Ramp-up Rate (T_L to T_p)	3 °C/second max.
Liquidous temperature (T_L)	217 °C
Time (t_L) maintained above T_L	60-150 seconds
Peak package body temperature (T_p)	245 °C
Time (t_p) at $T_c - 5^\circ C$ (T_p should be equal to or less than T_c)	< 30 seconds
Ramp-Down Rate (T_p to T_L)	6 °C/second max.
Time 25 °C to Peak Temperature	8 minutes max.

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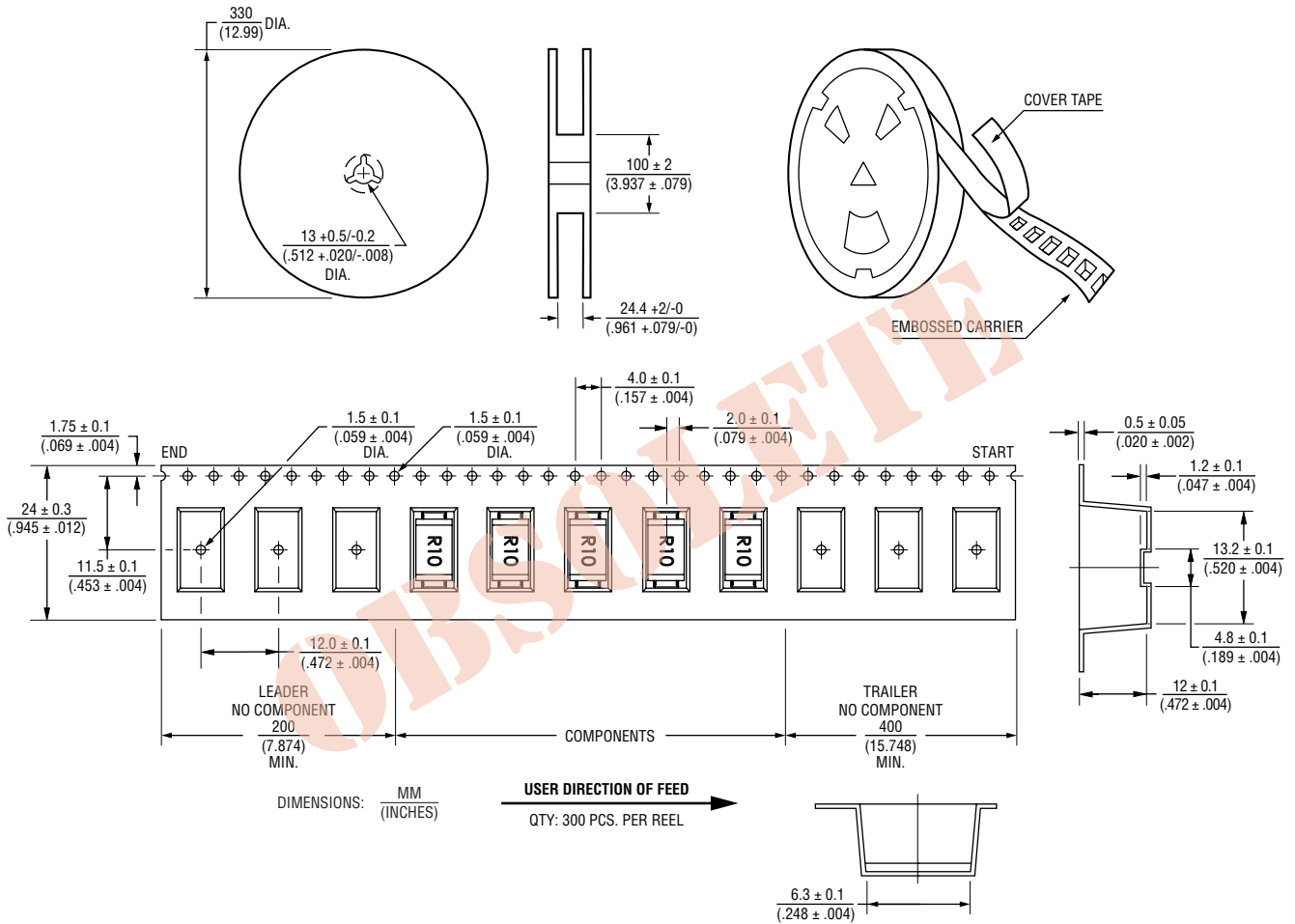
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SRP1060VR Series – Shielded Power Inductors

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Packaging Specifications



REV. 01/25

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