



Features

- Shielded construction
- Unit height of 4.2 mm
- Inductance range: 0.10 μ H to 0.22 μ H
- Current up to 35 A
- RoHS compliant*

 This series is currently available but not recommended for new designs.

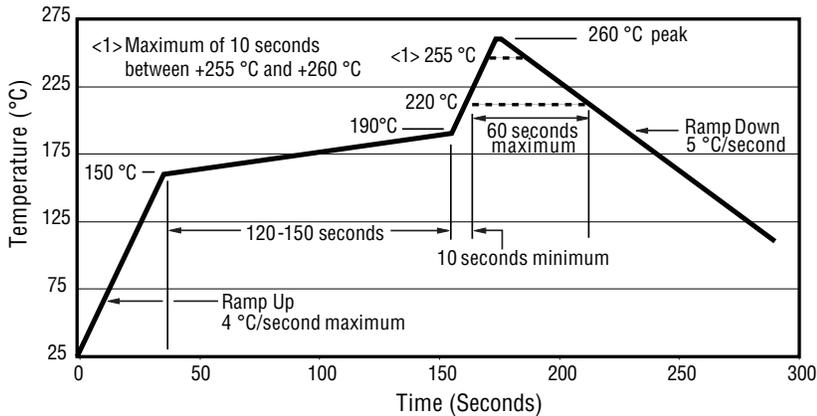
SRP8040 Series - Shielded Power Inductors

Electrical Specifications

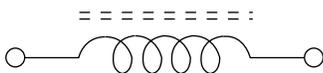
Bourns Part No.	Inductance L (μ H)	IDC (A)	RDC (m Ω) max.	RDC (m Ω) typ.
SRP8040-R10Y	0.10 \pm 30 %	35.0	0.65	0.49
SRP8040-R22Y	0.22 \pm 30 %	25.0	0.65	0.49

SRP8040-R10Y: IDC based on inductance drop 10 % typical of L value at 20 $^{\circ}$ C.
 SRP8040-R22Y: IDC based on inductance drop 30 % typical of L value at 20 $^{\circ}$ C.

Soldering Profile



Electrical Schematic



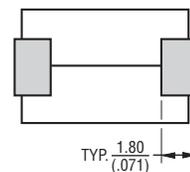
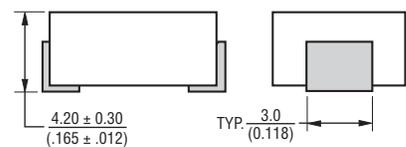
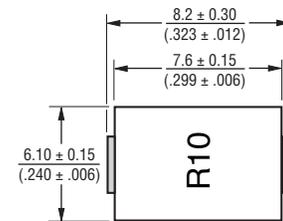
General Specifications

Test Voltage1.0 V
 Test Frequency100 KHz
 Reflow Soldering230 $^{\circ}$ C; 50 sec max.
 Operating Temperature...-55 $^{\circ}$ C to +150 $^{\circ}$ C
 (Temperature rise included)
 Storage Temperature...-55 $^{\circ}$ C to +150 $^{\circ}$ C
 Resistance to Soldering Heat
+260 $^{\circ}$ C for 10 sec.

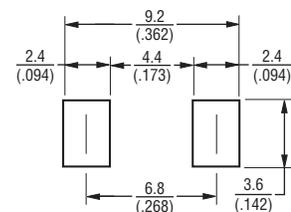
Materials

Core.....Ferrite
 Wire.....Tinned copper
 Terminal.....Cu/Sn
 Rated Current
See Electrical Specifications
 Temperature Rise.....40 $^{\circ}$ C at rated I rms
 Packaging1000 pcs. per 13-inch reel

Product Dimensions



Recommended Layout



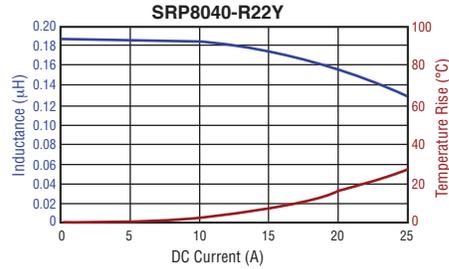
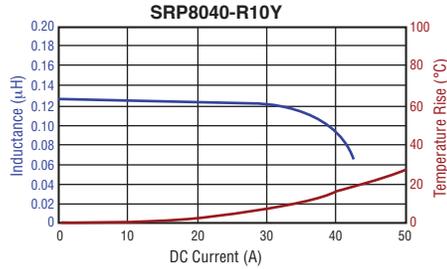
DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$

*RoHS Directive 2002/95/EC Jan 27 2003 including Annex.
 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

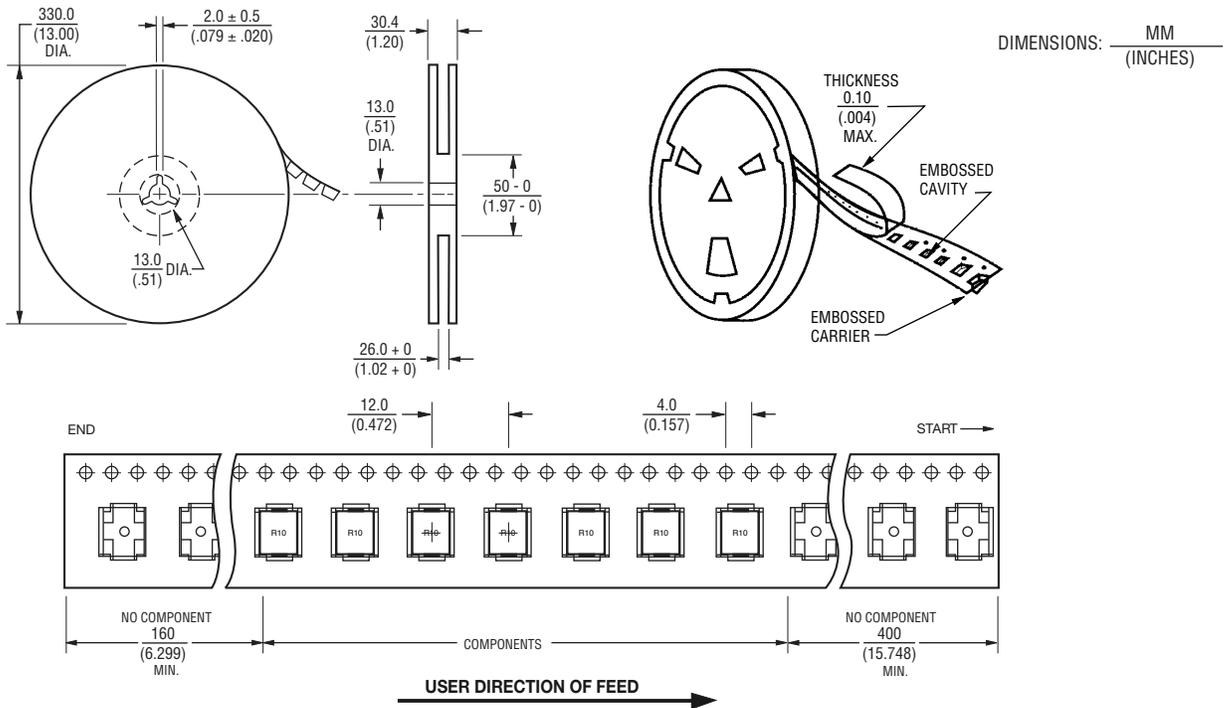
SRP8040 Series - Shielded Power Inductors

BOURNS®

L vs. I Charts



Packaging Specifications



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Users should verify actual device performance in their specific applications.

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