



***RoHS COMPLIANT**
****HALOGEN FREE**

Features

- Ferrite toroid core for low radiation
- Current rating: 2.5 A
- High inductance: 3.5 mH
- RoHS compliant* and halogen free**

Applications

- Noise suppression - power lines

Sustainability

- High pallet density for lower CO₂
- Eco-logistics-friendly packing
- Corrosion-resistant for longevity
- ISO 14001, low impact energy
- Responsibly sourced and produced
- Meets EU 94/62/EC standards

Product Overview

Featuring a ferrite toroid core for low radiation and a high inductance of 3.5 mH, the Model SRF1709 suppresses electromagnetic interference (EMI) coming into or leaving from the system. This

high inductance common mode choke is ideal for power line noise suppression in consumer, industrial, and other electronic applications.

Electrical Specifications (@ 25 °C Unless Otherwise Noted)

Bourns Part No.	Inductance L1, L2 @ 10 kHz / 0.1 V (mH)	Tolerance (%)	SRF (MHZ) Typ.	DCR N1, N2 (mΩ) Max.	I _{rms} (A) Typ.
SRF1709-352Y	3.5	±40	1.15	79.5	2.5

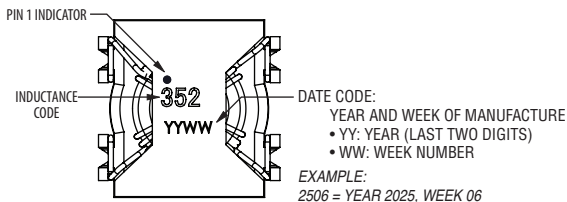
General Specifications

Operating Temperature -40 °C to +85 °C
 Storage Temperature -40 °C to +85 °C
 Temperature Rise 40 °C at rated I_{rms}
 Hi-Pot(N1-N2) 1 kVdc, 3 mA, 1 sec.
 Moisture Sensitivity Level 1
 ESD Classification (HBM) N/A

Materials

Core Ferrite
 Wire Enameled copper
 Terminal finish SnAgCu
 Packaging 250 pcs. per 13-inch reel

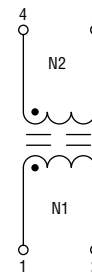
Typical Part Marking



How to Order

Model _____ **SRF1709 - 352 Y**
 Value Code _____
 Tolerance _____

Electrical Schematic



Contact Information

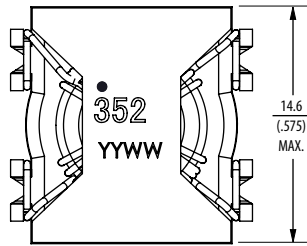
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* RoHS Directive 2015/863, Mar 31, 2015 and Annex.
 ** Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

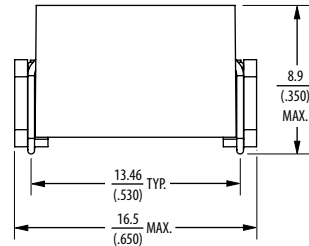
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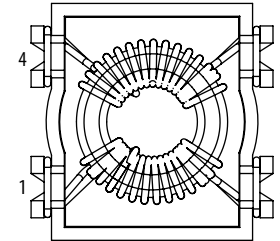
Product Dimensions



TOP VIEW



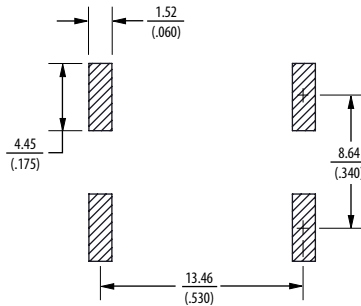
SIDE VIEW



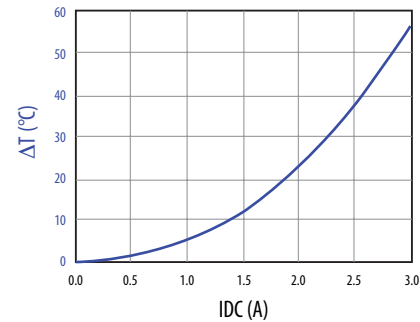
BOTTOM VIEW

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

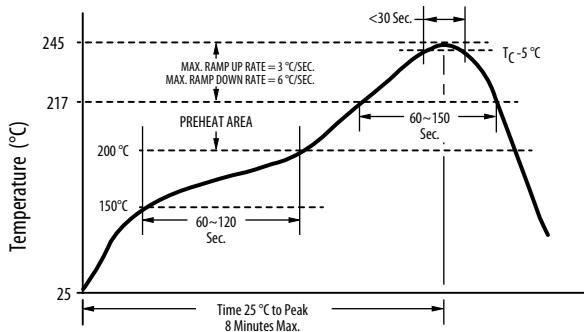
Recommended Layout



Temperature Rise



Solder Reflow Recommendations



REFLOW TIMES: 3 TIMES MAX.

Profile Feature	Pb Free Assembly
Preheat	
- Temperature Min. (T_{smin})	150 °C
- Temperature Max. (T_{smax})	200 °C
- Time (t_s) from T_{smin} to T_{smax}	60-120 seconds
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 within 5 °C of Actual Peak Temperature (t_p)	<30 seconds
Ramp-Down Rate (T_P to T_L)	6 °C/second max.
Time 25 °C to Peak Temperature	8 minutes max.

T_P = Maximum peak package body temperature
 T_C = The classification temperature
 T_P should be equal to or less than T_C
 Refer to IPC/JEDEC J-STD-020E

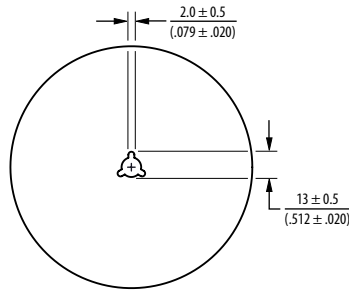
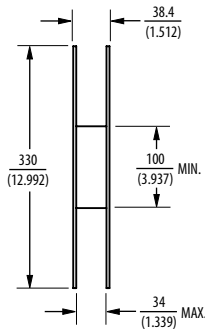
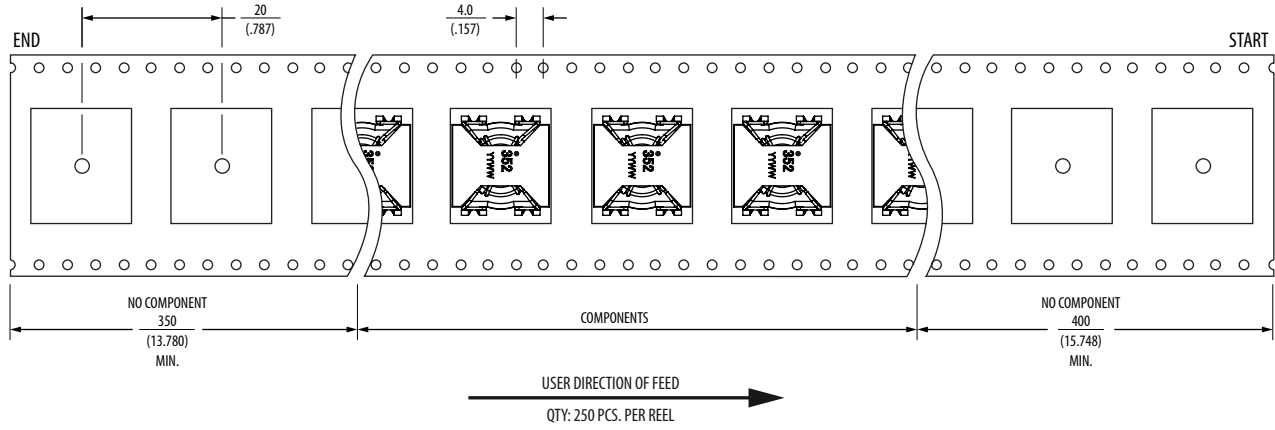
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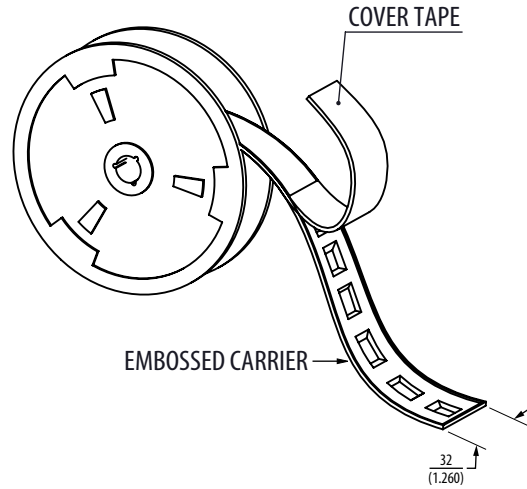


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Packaging Specifications



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



REV. 09/25

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