

Features

- Small size and low profile
- High impedance over high frequency
- RoHS compliant* and halogen free**

Applications

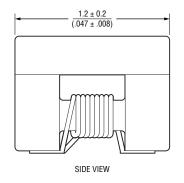
- Noise suppression in signal transmission line
- USB 3.1 Gen 1/2
- HDMI 2.0/2.1
- USB4[™]
- Thunderbolt[™]

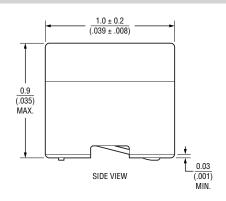
SRF1209U4 Series - Common Mode Chip Inductor

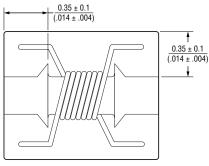
Electrical Specifications at 25 °C

Part Number	Common Mode Impedance (Ω)	Test Frequency (MHz)	Cut-off Frequency Typ. (GHz)	DCR Max. (Ω)	Rated Current Max. (mA)	Rated Voltage Max. (VDC)	Withstand Voltage Max. (VDC)	IR Min. (Ω)
SRF1209U4-1R9Y	1.9 ±25 %	100	18	0.20	400	50	125	10M
SRF1209U4-5R3Y	5.3 ±25 %			0.30	300			
SRF1209U4-300Y	30.0 ±25 %			0.20	400			
SRF1209U4-900Y	90 ±25 %			0.30	300			

Product Dimensions

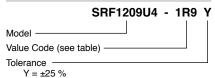






DIMENSIONS:

How to Order



BOTTOM VIEW

Electrical Schematic



- * 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 (CI) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (CI) content is 1500
- "Thunderbolt" is a trademark of Intel Corporation in the U.S. and/or other countries.
- "USB4" is a registered trademark of USB Implementers Forum. Specifications are subject to change without notice. Users should verify actual device performance in their specific applications.

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Additional Information

Click these links for more information:











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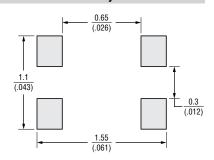
General Specifications

Operating Temperature-40 °C to +125 °C Storage Temperature-40 °C to +125 °C Temperature Rise..... 40 °C at rated Irms Moisture Sensitivity Level:.....1 ESD Classification (HBM): N/A

Materials

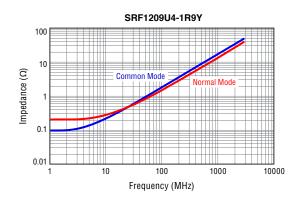
Core Material Ferrite WireEnameled copper Terminal Finish Sn Packaging...... 3,000 pcs. per 7-inch reel

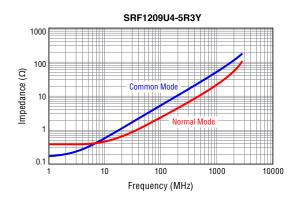
Recommended Layout

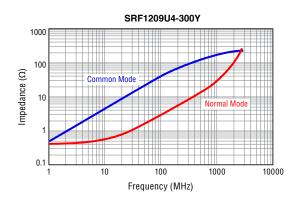


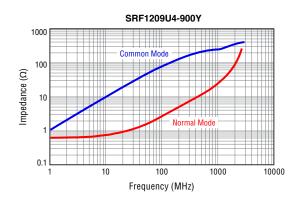


Typical Impedance vs. Frequency Curves

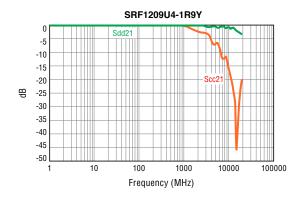


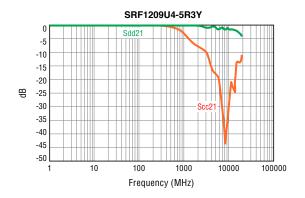




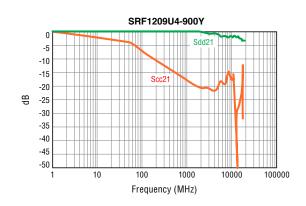


Typical Characteristics

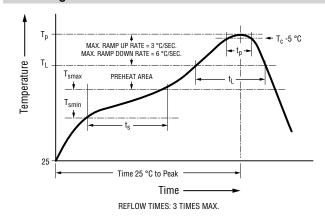






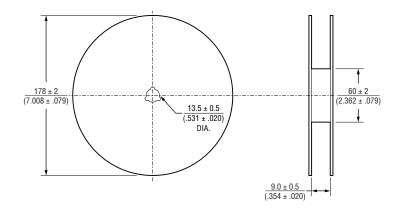


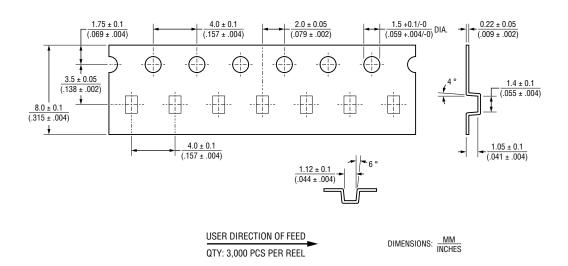
Soldering Profile



Profile Feature	Pb Free Assembly		
Preheat - Temperature Min. (T _{smin}) - Temperature Max. (T _{smax}) - Time(t _s) from T _{smin} to T _{smax}	150 °C 200 °C 60-120 seconds		
Ramp-up Rate (T _L to T _p)	3 °C/second max.		
Liquidous temperature (T _L) Time (t _L) maintained above T _L	217 °C 60-150 seconds		
Peak package body temperature (Tp)	260 °C		
Time (t _p) at T _c - 5 °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.		

Packaging Specifications





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