

Features

- Monolithic construction for high reliability
- Compact size: 1.2 x 1.0 x 0.6 mm
- Impedance range: 67 to 120 Ω
- RoHS compliant* and halogen free**

Applications

- Signal transmission lines (USB, LVDS)
- MIPI serial interface in mobile devices

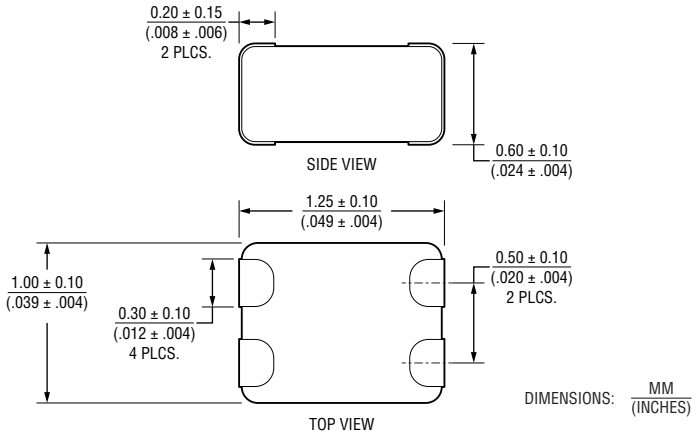
BOURNS®

CCF1206 Series – Multilayer Common Mode Filter

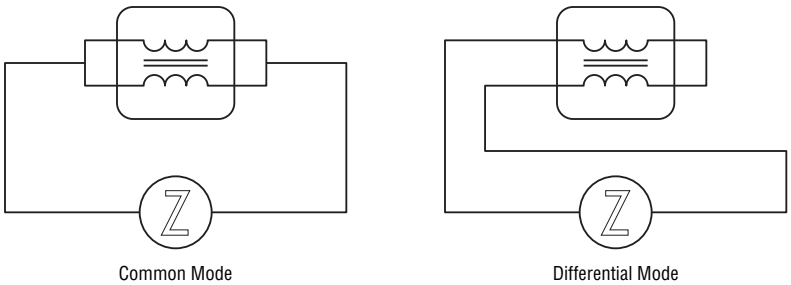
Electrical Specifications @ 25 °C

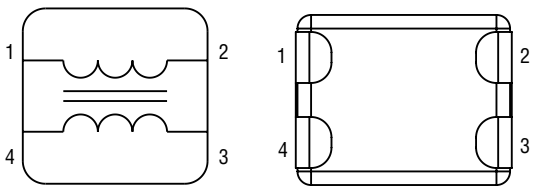
Bourns Part Number	Impedance @ 100 MHz		Rated Voltage (V)	Withstand Voltage (V)	Insulation Resistance Min. (MΩ)	DCR Max. (Ω)	Rated Current Max. (mA)
	Z (Ω)	Tolerance (%)					
CCF1206-670Y	67	±25	10	25	200	0.50	300
CCF1206-900Y	90					0.60	
CCF1206-121Y	120					0.60	

Product Dimensions



Electrical Schematic





CALIFORNIA WARNING: Can expose you to lead, a carcinogen and reproductive toxicant. See www.P65Warnings.ca.gov

Additional Information

Click these links for more information:

PRODUCT | TECHNICAL LIBRARY | INVENTORY | SAMPLES | CONTACT

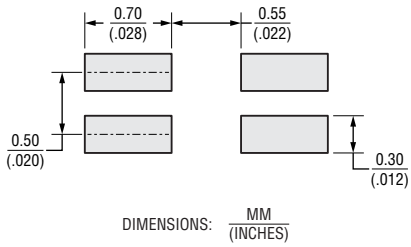
General Specifications

Operating Temperature ..... -40 °C to +85 °C
Storage Temperature .... -40 °C to +85 °C
Moisture Sensitivity Level 1
ESD Classification (HBM) ..... N/A

Materials

Base Material ..... Ferrite
Terminal ..... Sn
Packaging ..... 4,000 pcs. per 7-inch reel

Recommended Layout



How to Order

CCF1206 - 670 Y

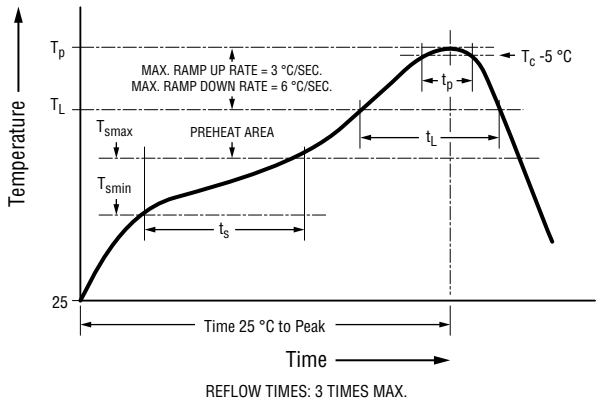
Model
Value Code (see table)
Tolerance
Y = ±25 %

* 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.
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Soldering Profile

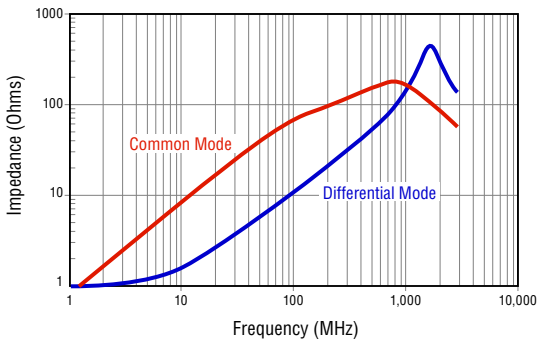


REFLOW TIMES: 3 TIMES MAX.

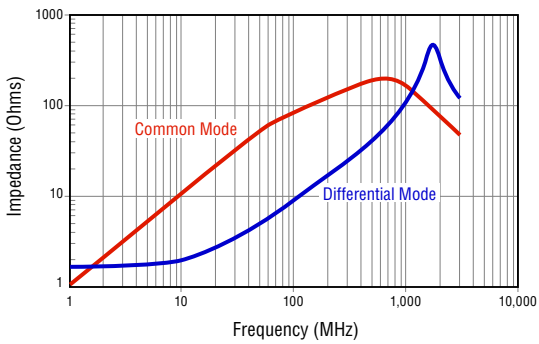
Profile Feature	Pb Free Assembly
Preheat - Temperature Min. (T_{smin}) - Temperature Max. (T_{smax}) - Time(t_s) from T_{smin} to T_{smax}	 150 °C 200 °C 60-120 seconds
Ramp-up Rate (T_L to T_p)	3 °C/second max.
Liquidous temperature (T_L) Time (t_L) maintained above T_L	217 °C 60-150 seconds
Peak package body temperature (T_p)	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.

Typical Impedance vs. Frequency Curves

CCF1206-670Y

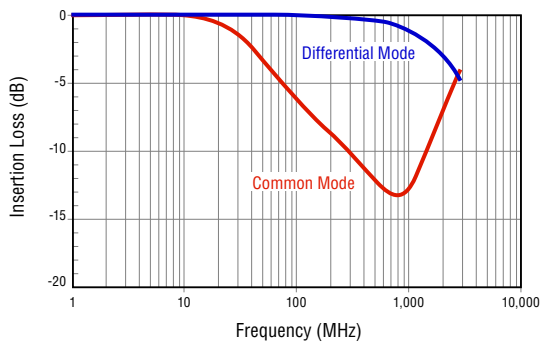


CCF1206-900Y

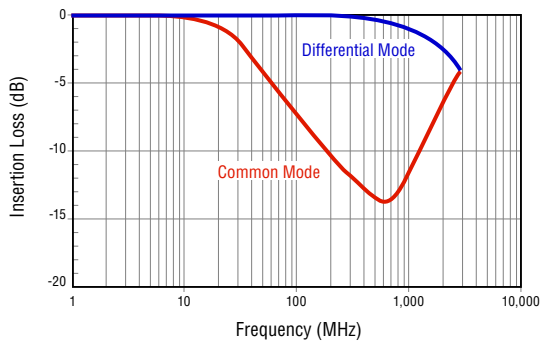


Typical Insertion Loss vs. Frequency Curves

CCF1206-670Y



CCF1206-900Y

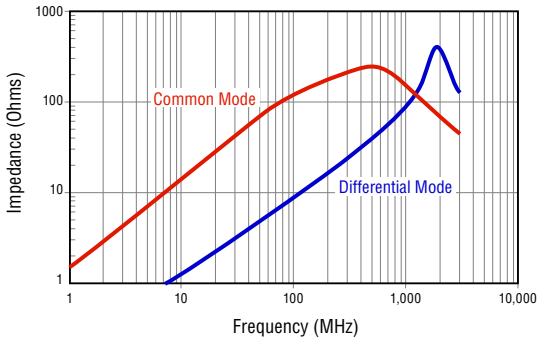


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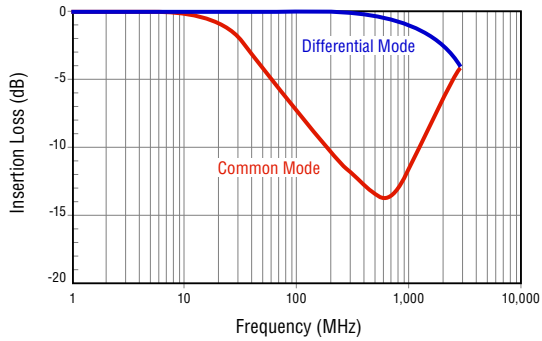
Typical Impedance vs. Frequency Curves – continued

CCF1206-121Y

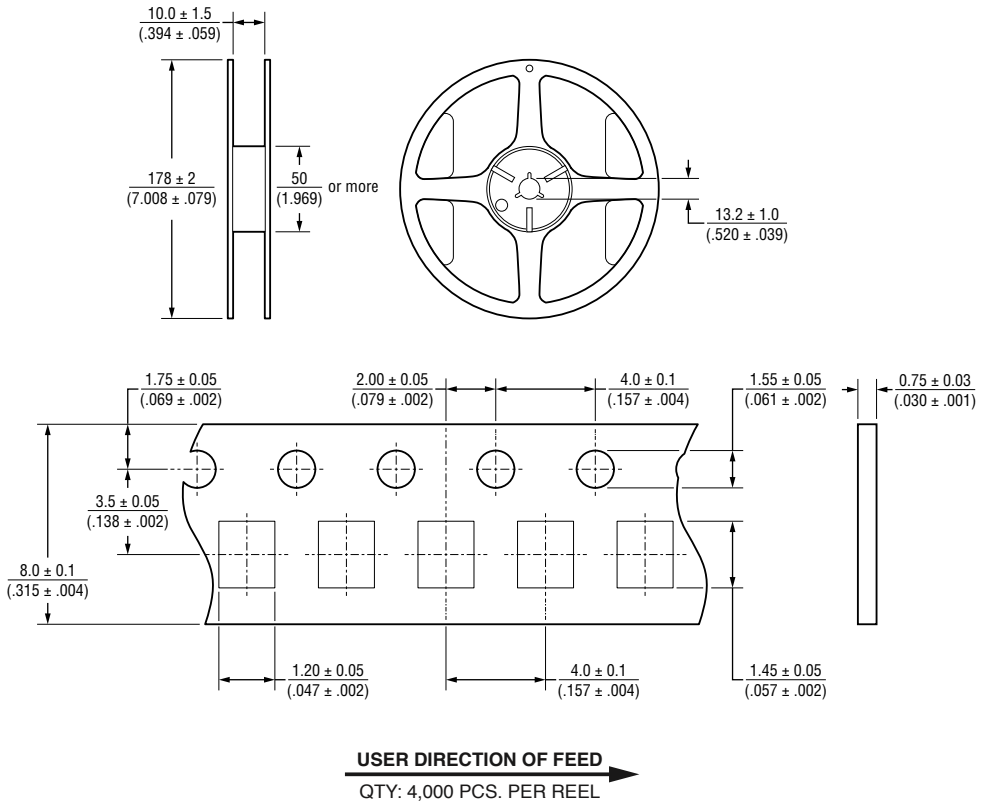


Typical Insertion Loss vs. Frequency Curves – continued

CCF1206-121Y



Packaging Specifications



DIMENSIONS: MM (INCHES)

REV. 05/26

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