### Surface Mount Common Mode Chokes



#### **FEATURES**

- RoHS compliant
- 0.47mH to 4.7mH
- Surface mount
- Up to 0.7A loc
- UL94 V-0 package materials

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- Compact size
- J-STD-020C reflow
- Backward compatible with Sn/Pb soldering systems

### **PRODUCT OVERVIEW**

The 5000 series is a range of surface-mount common mode chokes designed to attenuate up to 100MHz common mode noise where line filtering is required, such as low current switching power supplies and telecom applications.

Rohs Compliant 2002/95/EC	For full details go to
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	SELECTION GUIDE							
	Order Code	Inductance, L <sup>1</sup> (0.1V @ 100kHz)		Leakage Inductance, LL (0.1V @ 100kHz)		DC Resistance, R <sup>1</sup>	Current Rating <sup>3</sup> (series	s Isolation⁴
(	Order Code	Nom.	Tolerance	Тур.	Max.	Max.	connection)	
		mH	%	μH	μH	Ω	mAdd	Vrms
	50474C	0.47	+50%/-30%	0.2	0.40	0.30	700	
	50105C	1.00		0.2	0.40	0.30	700	500
	50225C	2.20		0.25	0.60	0.40	500	500
	50475C	4.70		0.4	0.80	0.70	400	

ABSOLUTE MAXIMUM RATINGS	
Operating free air temperature range	-40°C to 85°C
Storage temperature range	-40°C to 125°C

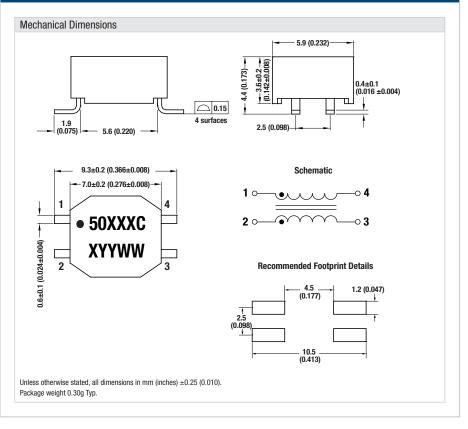
SOLDERING INFORMATION <sup>2</sup>				
Peak reflow temperature	250°C			
Pin finish	Pure tin dip			
Moisture sensitivity level <sup>5</sup>	1			

All specifications typical at  $\rm T_{A}{=}25^{\circ}\rm C$ 

- 1 Measured between pins 1-4 or 2-3.
- 2 For further information, please visit www.murata-ps.com/rohs
- 3 The maximum DC current occurs when its temperature rise reaches 40°C. 4 Flash tested for 1 second.

Flash tested for 1 second.
Representative samples of the product were subjected to the conditioning described in IPC/JEDEC J-STD-020C and passed electrical testing, package coplanarity and visual inspection which revealed no external cracks or changes in package body flatness.

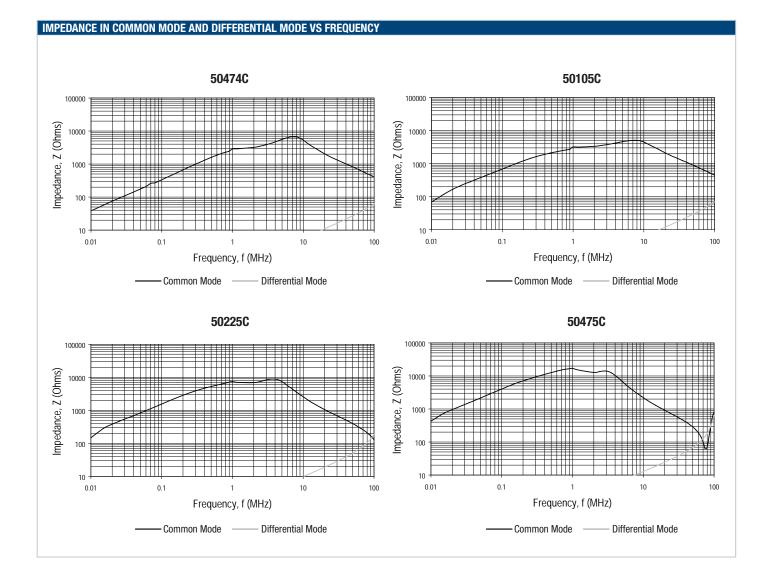
### PACKAGE SPECIFICATIONS



### muRata P- Murata Power Solutions

# **5000 Series**

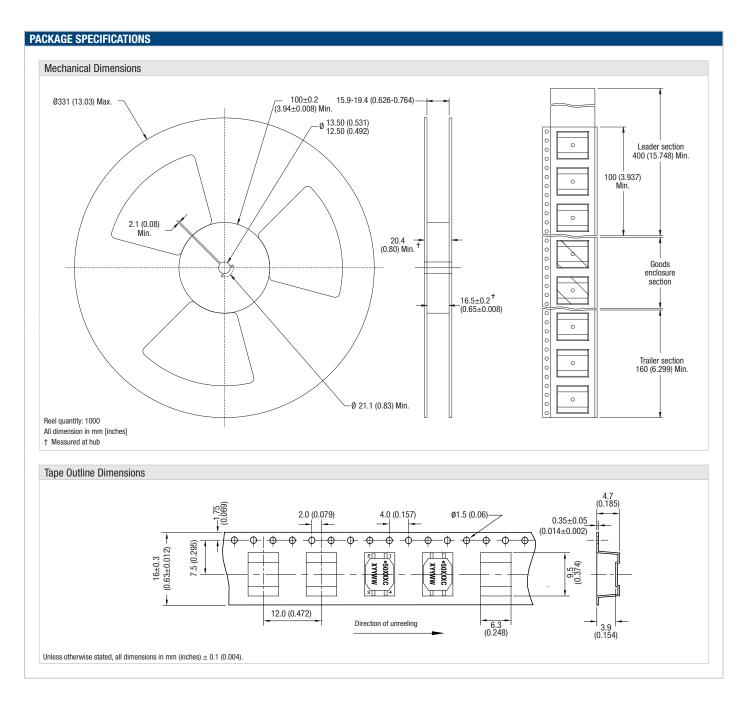
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# **5000 Series**

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www.murata-ps.com/support

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