# 25-06983





#### **FEATURES**

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

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.



### **5000 Series**

Surface Mount Common Mode Chokes

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		
	Nom.	Tolerance	Тур.	Max.	Max.	connection)			
	mH	%	μH	μH	Ω	mAdd	Vrms		
50474C	0.47	+50%/-30%	0.2	0.40	0.30	700	500		
50105C	1.00		0.2	0.40	0.30	700			
50225C	2.20		0.25	0.60	0.40	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

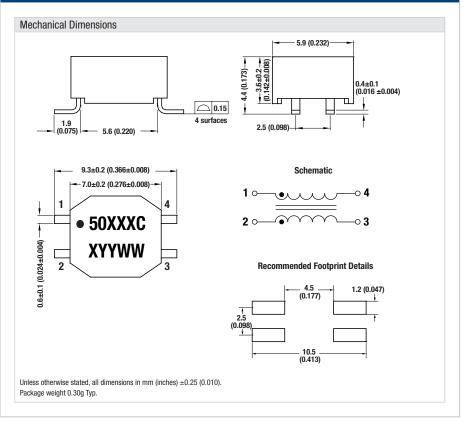
SOLDERING INFORMATION <sup>2</sup>					
Peak reflow temperature	250°C				
Pin finish	Pure tin dip				
Moisture sensitivity level <sup>5</sup>	1				

All specifications typical at  $T_A=25$  °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  $40^\circ\text{C}.$

Flash tested for 1 second.
5 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.

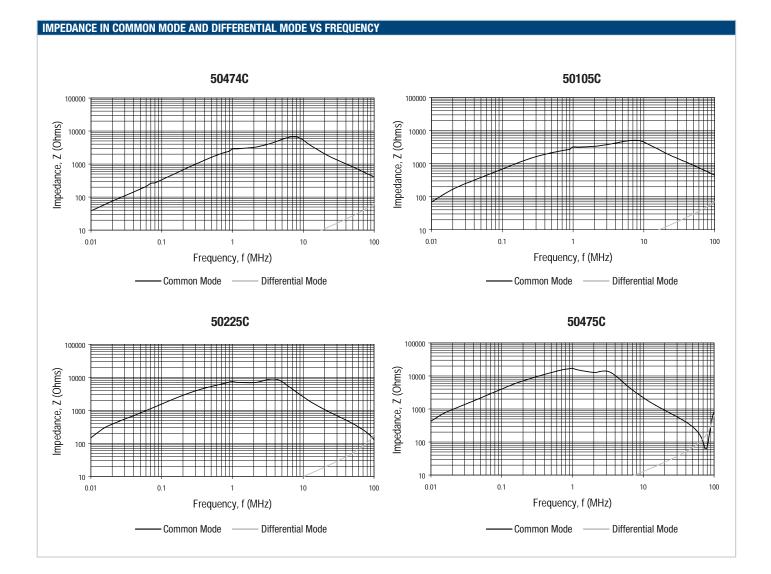
#### PACKAGE SPECIFICATIONS



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## **5000 Series**

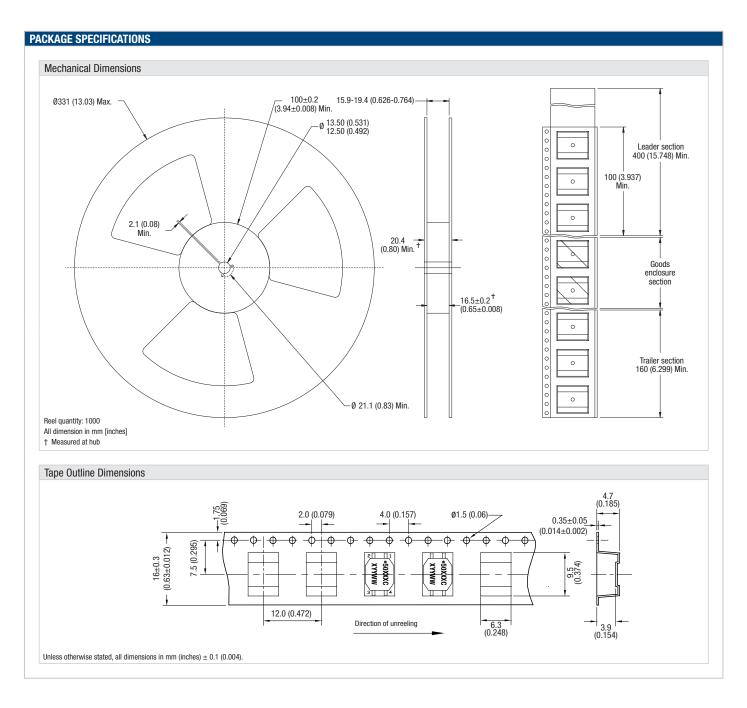
Surface Mount Common Mode Chokes



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## **5000 Series**

Surface Mount Common Mode Chokes



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