

## 5000 Series

## Surface Mount Common Mode Chokes



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RoHS	comp	liant

- 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 OVERVI	EW
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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.

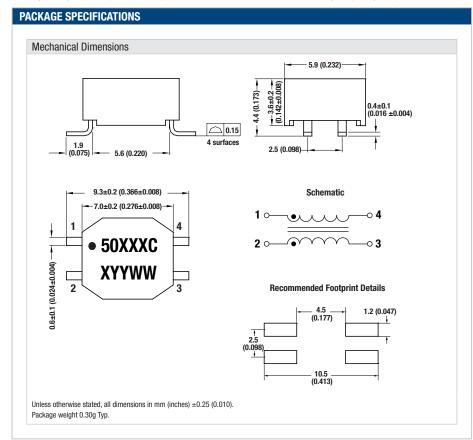
SELECTION (	UIDE						
Order Code	Inducta (0.1V @	ance, L¹ 100kHz)	Leakage Inductance, L. (0.1V @ 100kHz)		DC Resistance, R <sup>1</sup>	Current Rating <sup>3</sup> (series	Isolation4
Order Code	Nom.	Tolerance	Тур.	Max.	Max.	connection)	
	mH	%	μН	μΗ	Ω	m <b>A</b> bc	Vrms
50474C	0.47		0.2	0.40	0.30	700	
<b>50105C</b> 1.00	+50%/-30%	0.2	0.40	0.30	700	500	
50225C	2.20	+3070/-3070	0.25	0.60	0.40	500	300
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

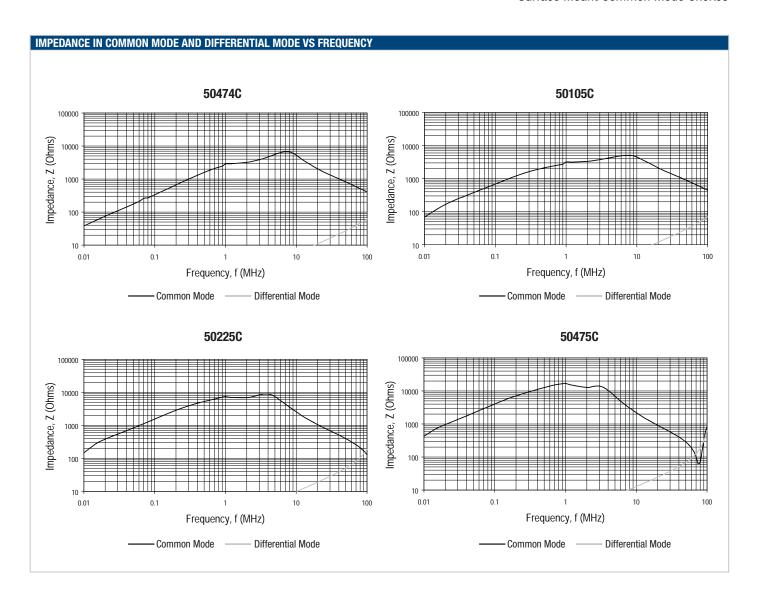
- 1 Measured between pins 1-4 or 2-3.
- 2 For further information, please visit www.murata-ps.com/rohs
- 3 The maximum DC current occurs when its temperature rise reaches 40°C.
- Flash tested for 1 second.
- 5 Representative samples of the product were subjected to the conditioning described in IPC/JEDEC J-STD-020C and passed electrical testing, package coplanarity and visual inspection which revealed no external cracks or changes in package body flatness.





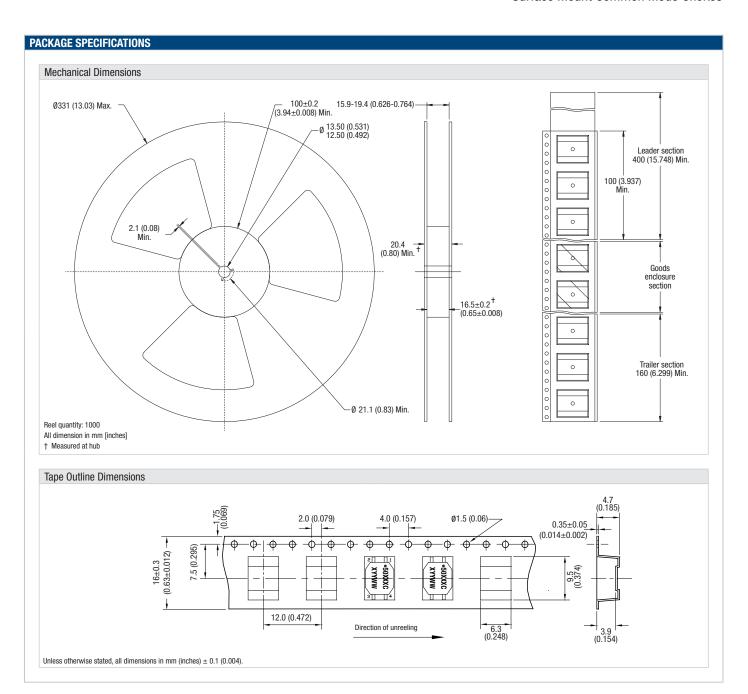


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