

SMC5000 Series

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

PRODUCT OVERVIEW

The SMC5000 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.

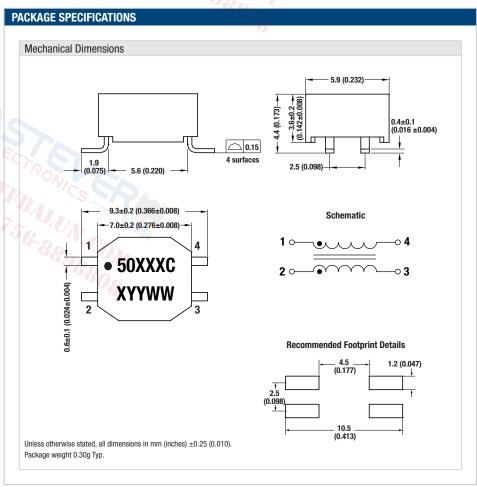
SELECTION GUIDE									
Order Code	Inductance, L ¹ (0.1V @ 100kHz)		Leakage Inductance, L. (0.1V @ 100kHz)		DC Resistance, R ¹	Current Rating ³ (series	Isolation ⁴		
	Nom.	Tolerance	Тур.	Max.	Max.	connection)			
	mH	%	μН	μН	Ω	m A _{DC}	Vrms		
SMC50474C	0.47	+50%/-30%	0.2	0.40	0.30	700	500		
SMC50105C	1.00		0.2	0.40	0.30	700			
SMC50225C	2.20		0.25	0.60	0.40	500			
SMC50475C	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 ²						
Peak reflow temperature	250°C					
Pin finish	Pure tin dip					

All specifications typical at T_A=25°C

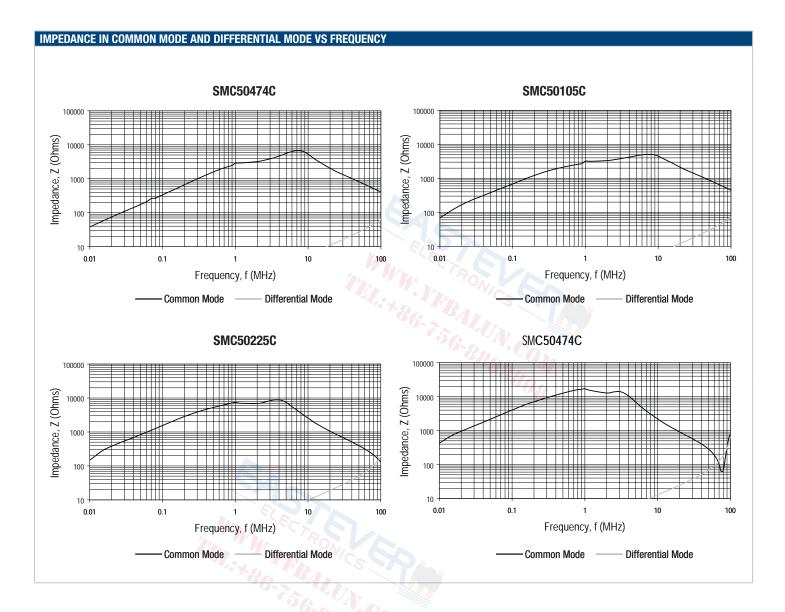
- 1 Measured between pins 1-4 or 2-3.
- 2 For further information, please visit www.murata-ps.com/rohs
- 3 The maximum DC current occurs when its temperature rise reaches 40°C.
- 4 Flash tested for 1 second.





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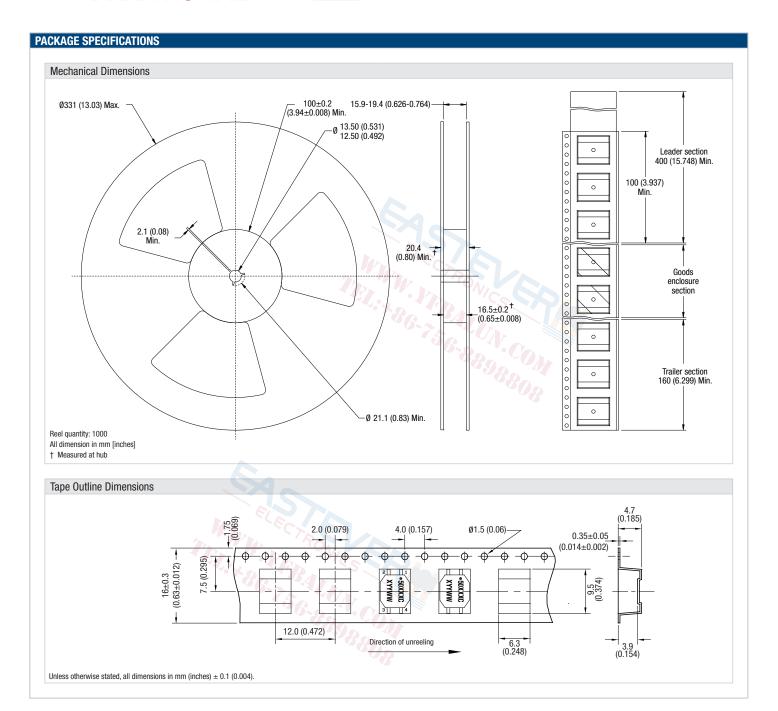
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