# **5000 Series**





muRata

**Murata Power Solutions** 

### **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.



SELECTION GUIDE									
Order Code	Inductance, L <sup>1</sup> (0.1V @ 100kHz)		Leakage Inductance, L∟ (0.1V @ 100kHz)		DC Resistance, R <sup>1</sup>	Current Rating <sup>3</sup> (series	Isolation <sup>4</sup>		
	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			

- All specifications typical at T<sub>4</sub>=25°C
- Measured between pins 1-4 or 2-3. 1
- For further information, please visit www.murata-ps.com/rohs 2
- 3 The maximum DC current occurs when its temperature rise reaches 40°C. 4
- Flash tested for 1 second.





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Surface Mount Common Mode Chokes

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#### IMPEDANCE IN COMMON MODE AND DIFFERENTIAL MODE VS FREQUENCY





## **5000 Series**

Surface Mount Common Mode Chokes

### PACKAGE SPECIFICATIONS



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