# imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

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## **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.



N GUIDE							
e	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
	0.47		0.2	0.40	0.30	700	

50105C	1.00	+50%/-30%	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		

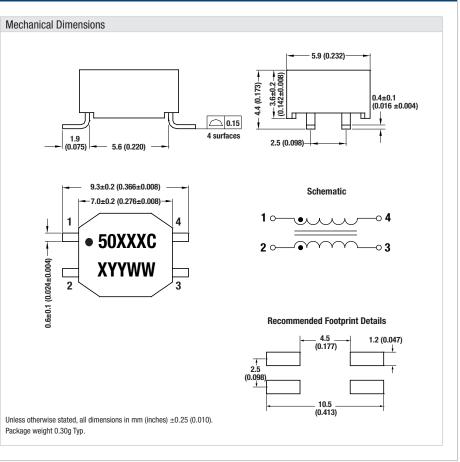
All specifications typical at  $T_A = 25^{\circ}C$ 

Order Code

50474C

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

#### PACKAGE SPECIFICATIONS

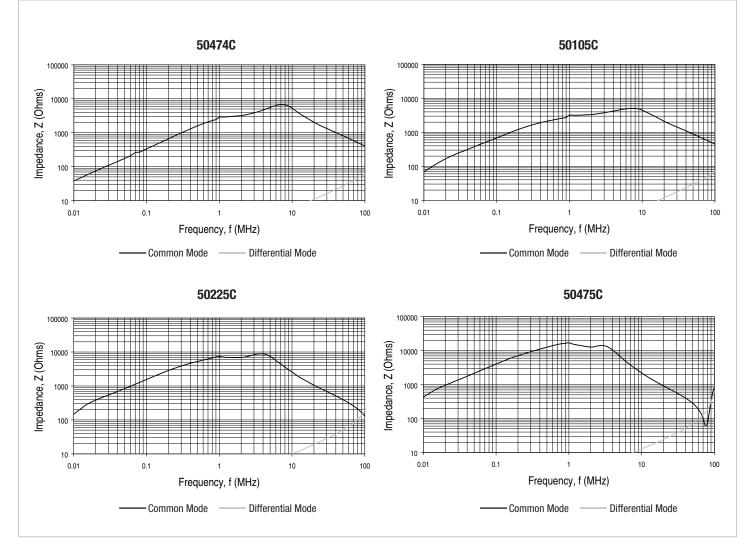


### muRata Ps Murata Power Solutions

Surface Mount Common Mode Chokes

**5000 Series** 

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

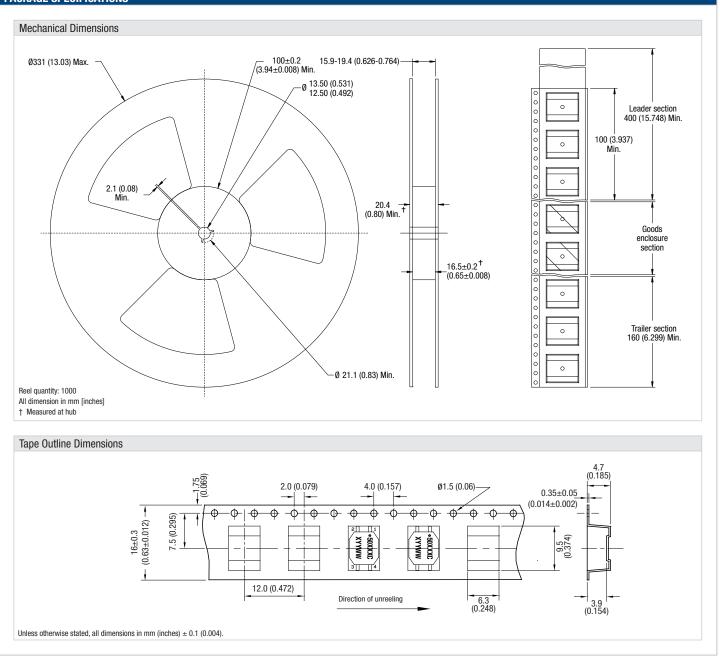




### **5000 Series**

Surface Mount Common Mode Chokes

#### PACKAGE SPECIFICATIONS



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