

## 5000 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

			IFW	

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, LL (0.1V @ 100kHz)		DC Resistance, R <sup>1</sup>	Current Rating <sup>3</sup> (series	Isolation <sup>4</sup>
Order Code	Nom.	Tolerance	Тур.	Max.	Max.	connection)	
	mH	%	μH	μН	Ω	m <b>A</b> DC	Vrms
50474C	0.47	+50%/-30%	0.2	0.40	0.30	700	500
50105C 50225C	1.00		0.2	0.40	0.30	700	
	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,=25°C

- Measured between pins 1-4 or 2-3.
  For further information, please visit www.murata-ps.com/rohs
- The maximum DC current occurs when its temperature rise reaches 40°C.
- Flash tested for 1 second.
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# **PACKAGE SPECIFICATIONS Mechanical Dimensions** 5.9 (0.232) (0.173)-0.4±0.1 (0.016 ±0.004) 0.15 9.3±0.2 (0.366±0.008) Schematic 7.0±0.2 (0.276±0.008) 50XXXC 0.6±0.1 (0.024±0.004) **XYYWW Recommended Footprint Details** 10.5 (0.413) Unless otherwise stated, all dimensions in mm (inches) ±0.25 (0.010) Package weight 0.30g Typ.

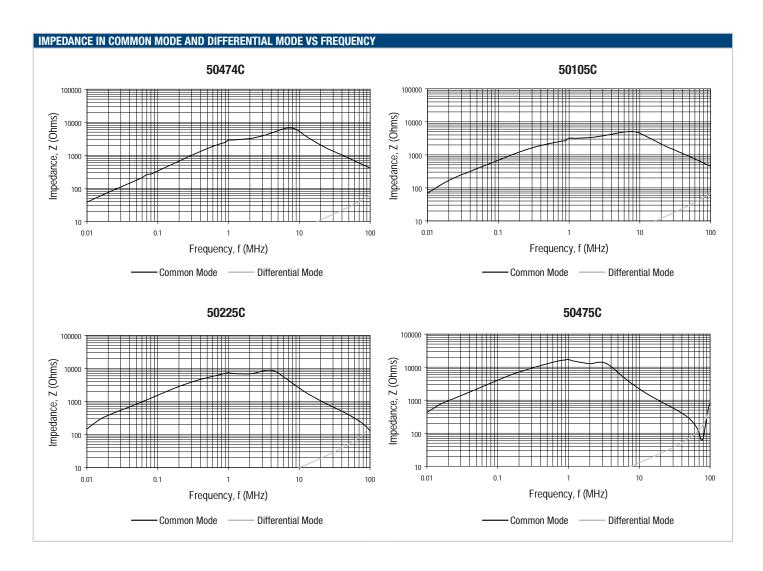




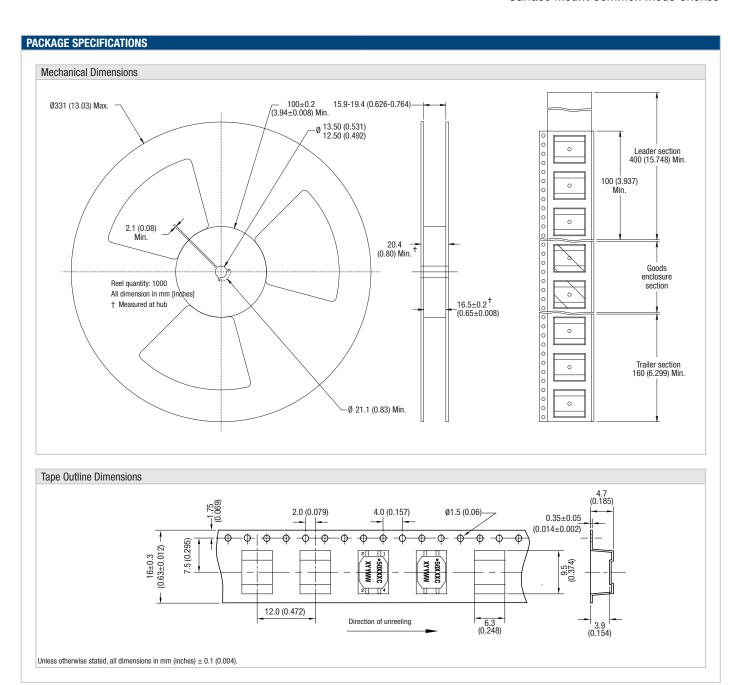
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- Medical equipment
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- Traffic signal equipment
- Disaster prevention / crime prevention equipment
- Data Processing equipment

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