

FEATURES

- RoHS compliant
- 0.47mH to 4.7mH
- Surface mount
- Up to 0.7A I_{DC}
- UL94 V-0 package materials
- Compact size
- J-STD-020C reflow

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 ¹ (0.1V @ 100kHz)		Leakage Inductance, L _L (0.1V @ 100kHz)		DC Resistance, R ¹	Current Rating	Isolation
	Nom.	Tolerance	Typ.	Max.	Max.		
	mH	%	μH	μH	Ω		
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

All specifications typical at T_A=25°C

¹ Measured between pins 1-4 or 2-3

RoHS COMPLIANCE INFORMATION

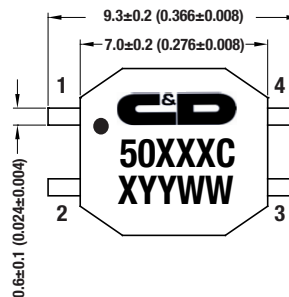
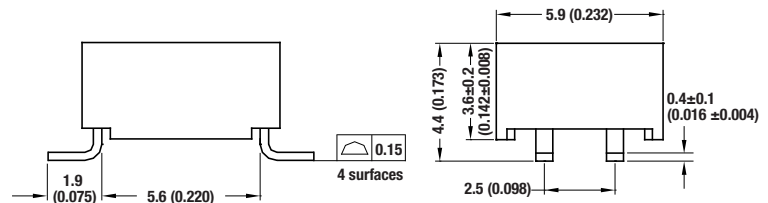


This series is compatible with RoHS soldering systems. Surface mount products can withstand a peak temperature of 250°C. The pin termination finish on this product series is pure tin dip. All types are backward compatible with Sn/Pb soldering systems.

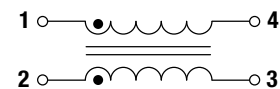
For further information, please visit: www.cd4power.com/rohs

PACKAGE SPECIFICATIONS

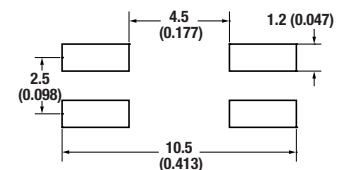
Mechanical Dimensions



Schematic



Recommended Footprint Details

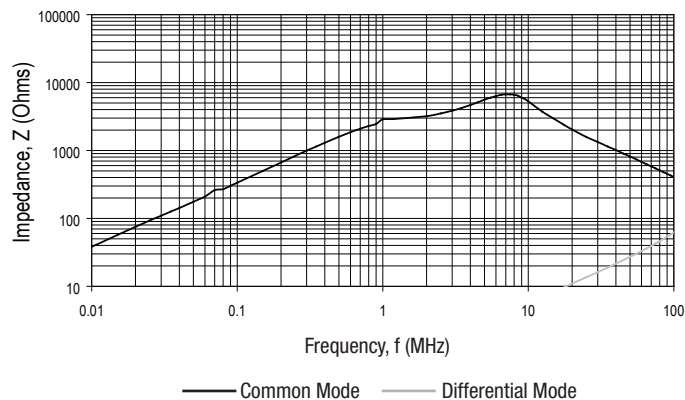


Unless otherwise stated, all dimensions in mm (inches) ±0.25 (0.010).
Package weight 0.30g Typ.

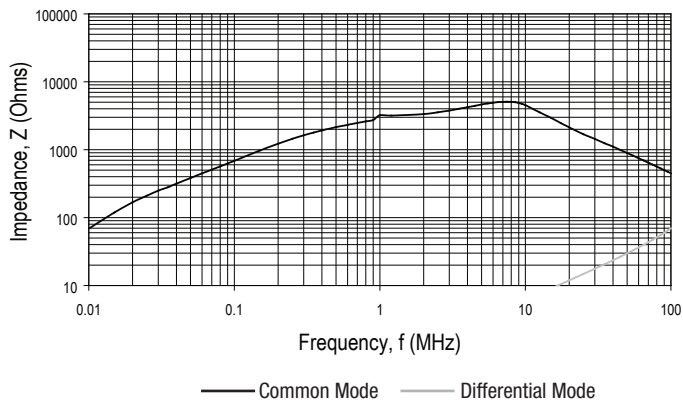


IMPEDANCE IN COMMON MODE AND DIFFERENTIAL MODE VS FREQUENCY

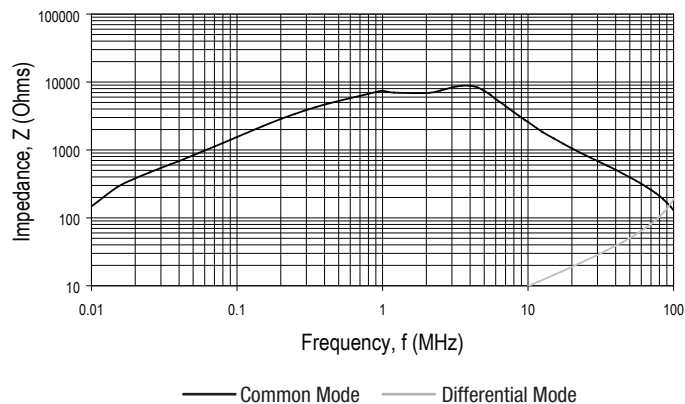
50474C



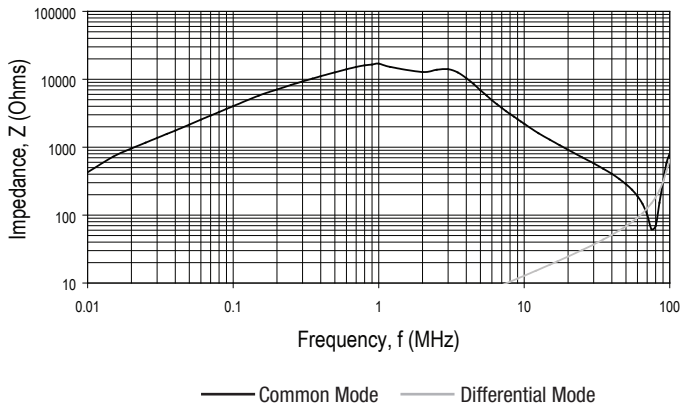
50105C



50225C

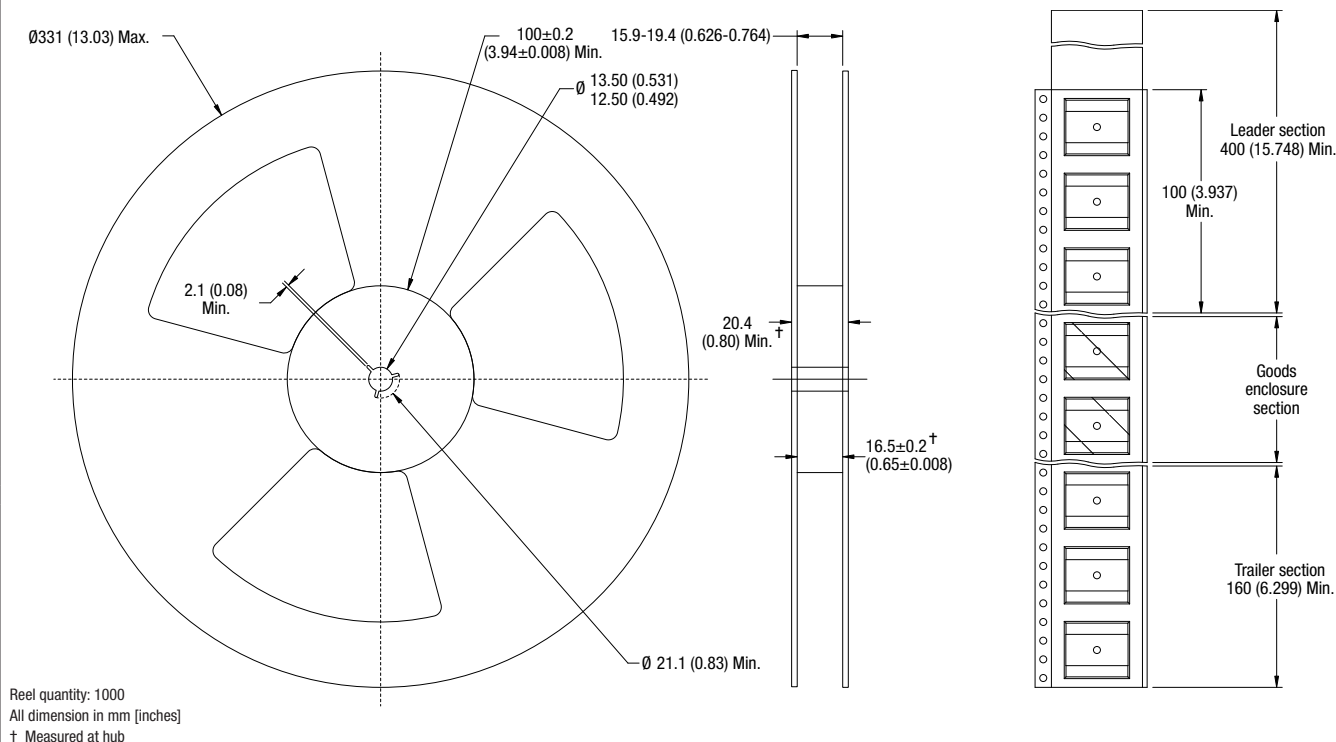


50475C



PACKAGE SPECIFICATIONS

Mechanical Dimensions



Tape Outline Dimensions

