



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!



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FEATURES

- RoHS compliant
- Toroidal construction
- Up to 4.1A loc
- Inductance range from 0.5 to 5.0mH
- Small footprint
- UL 94V-0 packaging materials
- Low DC resistance
- Guaranteed 3.0mm creepage and clearance between windings

PRODUCT OVERVIEW

The 5100 series is a range of through-hole common mode chokes designed to attenuate up to 100MHz common mode noise where line filtering is required, such as high current switching power supplies and telecom applications.

SELECTION GUIDE

Order Code	Inductance		DC Current	DC Resistance	Leakage Inductance
	Nom. mH	Range mH	Max. A	Max. mΩ	Max. μH
51504C	0.5	0.37-0.68	4.1	27	9
51105C	1.0	0.75-1.39	3.3	38	18
51305C	3.0	2.16-4.02	1.9	97	45
51505C	5.0	3.62-6.73	1.2	197	75

ABSOLUTE MAXIMUM RATINGS

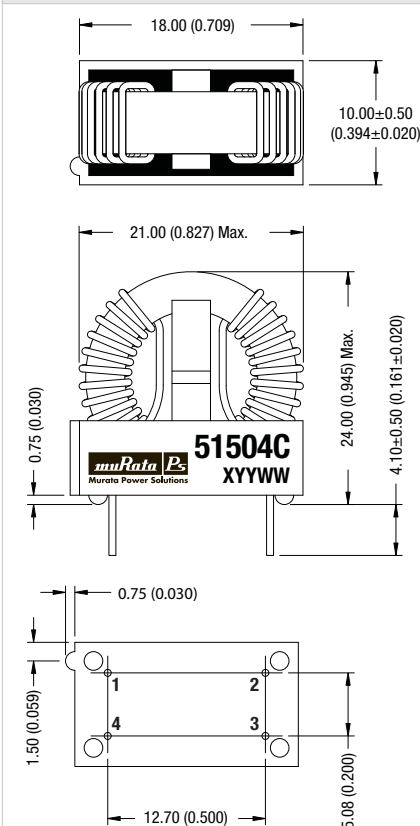
Operating free air temperature range	-40°C to 125°C
Storage temperature range	-40°C to 125°C
Isolation voltage	1500Vrms

SOLDERING INFORMATION¹

Peak wave solder temperature	260°C
Pin finish	Tin

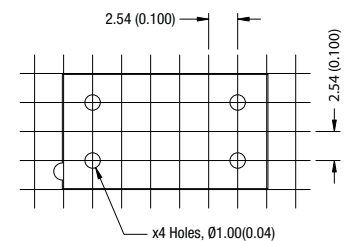
PACKAGE SPECIFICATIONS

Mechanical Dimensions

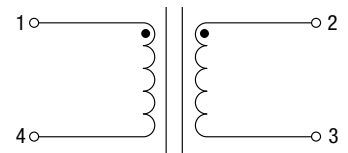


Package weight: 6.0g Typ.
All dimensions in mm (inches)

Recommended Footprint Details



Pin Connections



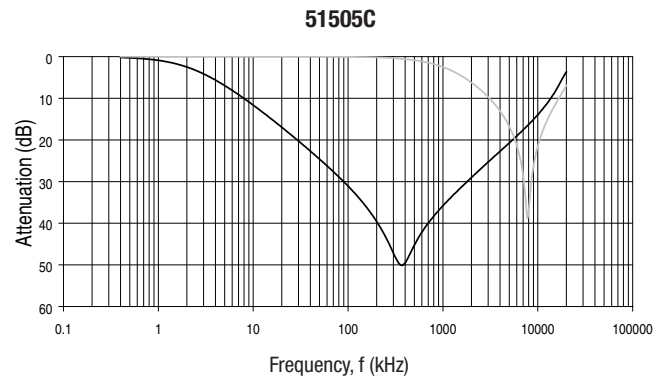
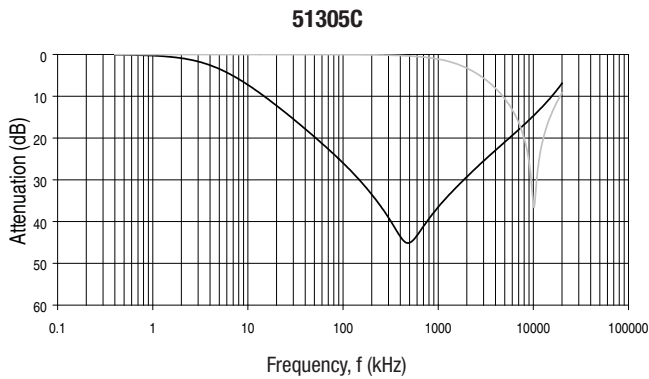
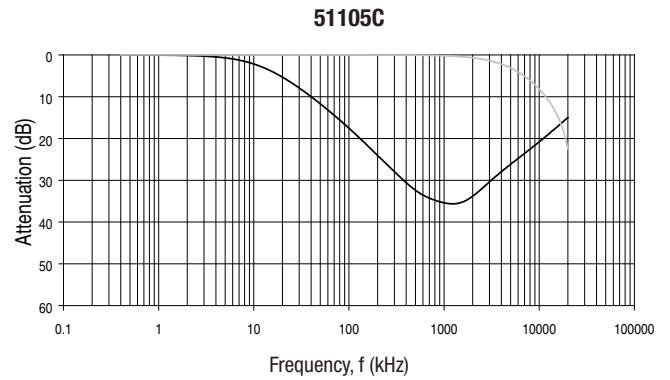
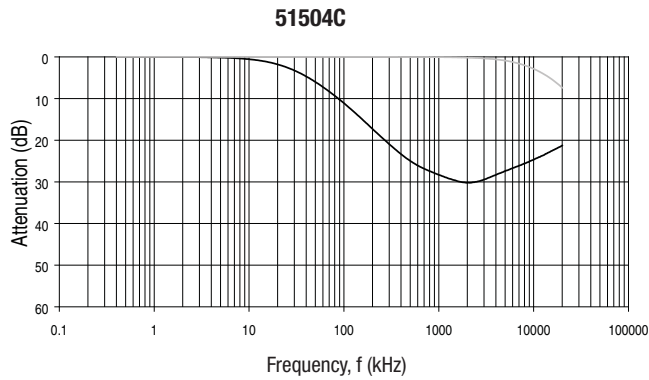
Packaging

Supplied in trays (60 pieces per tray)



Specifications typical at $T_a = 25^\circ\text{C}$
1 For further information, please visit www.murata-ps.com/rohs

COMMON AND DIFFERENTIAL MODE ATTENUATION VS FREQUENCY



— Common Mode — Differential Mode