



### FEATURES

- RoHS compliant
- Toroidal construction
- Up to 3.5A ldc
- Inductance range from 3mH to 10mH
- Small footprint
- UL 94V-0 packaging materials
- Low DC resistance
- Guaranteed 3.0mm creepage and clearance between windings

### PRODUCT OVERVIEW

The 5200 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
<b>52305C</b>	3.0	2.24-4.00	3.5	45	40
<b>52505C</b>	5.0	3.60-6.60	2.4	91	75
<b>52705C</b>	7.0	4.90-9.00	2.2	107	90
<b>52106C</b>	10.0	6.90-12.8	1.7	193	130

### ABSOLUTE MAXIMUM RATINGS

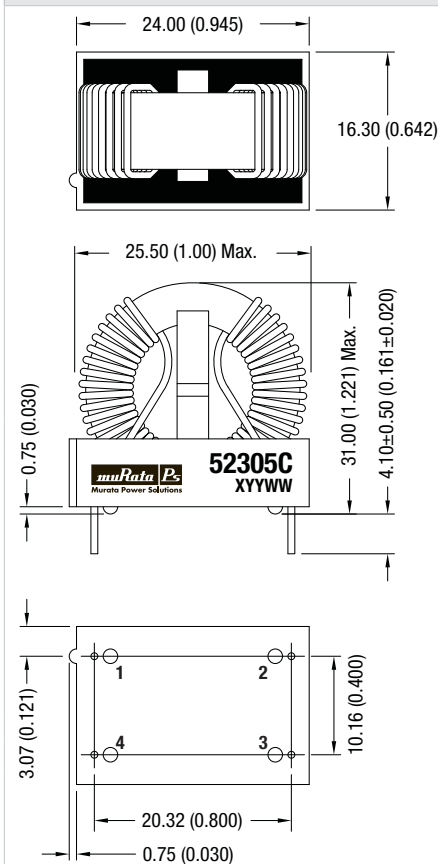
Operating free air temperature range	-40°C to 125°C
Storage temperature range	-40°C to 125°C
Isolation voltage	1500Vrms

### SOLDERING INFORMATION<sup>1</sup>

Peak wave solder temperature	260°C
Pin finish	Tin

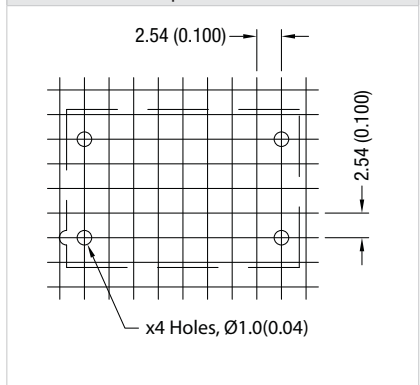
### PACKAGE SPECIFICATIONS

#### Mechanical Dimensions

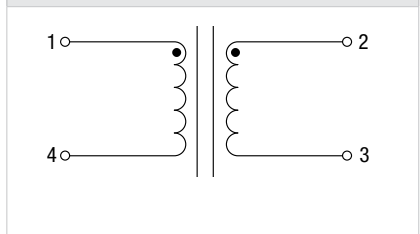


Package weight: 17.2g Typ.  
All dimensions in mm (inches)

#### Recommended Footprint Details



#### Pin Connections



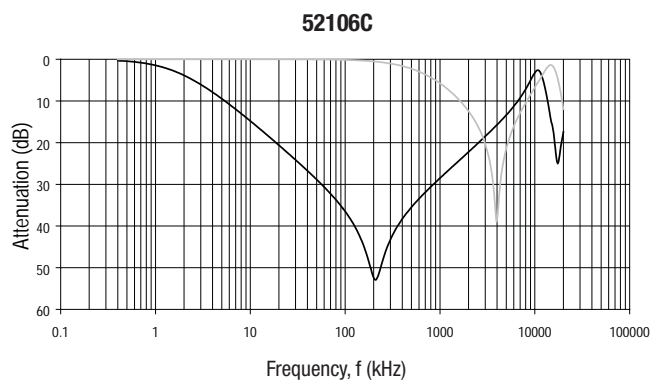
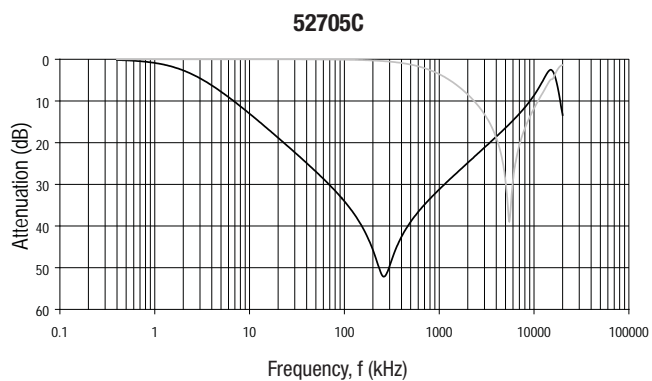
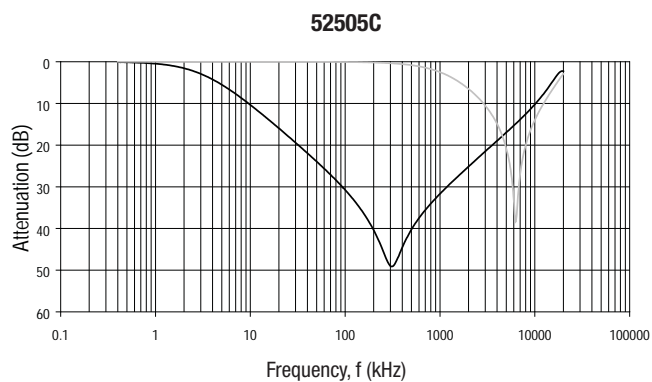
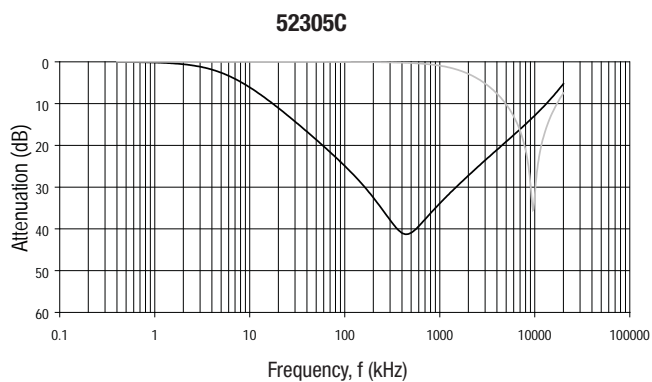
#### Packaging

Supplied in trays (40 pieces per tray)



Specifications typical at  $T_A = 25^\circ\text{C}$   
<sup>1</sup> For further information, please visit [www.murata-ps.com/rohs](http://www.murata-ps.com/rohs)

## COMMON AND DIFFERENTIAL MODE ATTENUATION VS FREQUENCY



— Common Mode — Differential Mode

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