

## FEATURES

- RoHS compliant
- 3.3 $\mu$ H to 330 $\mu$ H
- Surface mount
- J-STD-020C reflow
- Up to 5.20A I<sub>DC</sub>
- UL94 V-0 package materials
- Compact size
- Toroidal construction minimizes EMI
- Pick & place compatible
- Backward compatible with Sn/Pb soldering systems

## PRODUCT OVERVIEW

The 4000 series is a range of surface mount toroidal inductors designed for use in switching power supplies and DC/DC converters. The parts are ideal for applications requiring low profile compact components in a surface mount package.

## SELECTION GUIDE

Order Code	Inductance (10kHz, 10mV <sub>AC</sub> )		Inductance Range (10kHz, 10mV <sub>AC</sub> )	DC Current <sup>1</sup>		DC Resistance	
	Nom.	$\mu$ H		Max.	A	Max.	m $\Omega$
			Min. - Max.				
403R3C	3.3		2.4-3.9	5.20		17	
404R7C	4.7		3.7-6.1	4.40		19	
406R8C	6.8		5.3-8.8	3.60		20	
40100C	10		7.2-12.0	3.00		23	
40150C	15		11.9-19.8	2.40		30	
40220C	22		16.2-27.0	2.10		35	
40330C	33		24.8-41.4	1.66		54	
40470C	47		35.3-58.9	1.42		79	
40680C	68		50.3-83.9	1.20		148	
40101C	100		74.4-124	0.94		177	
40151C	150		115-192	0.76		273	
40221C	220		165-275	0.67		405	
40331C	330		247-412	0.54		610	

## 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	245°C
Pin finish	Pure tin dip

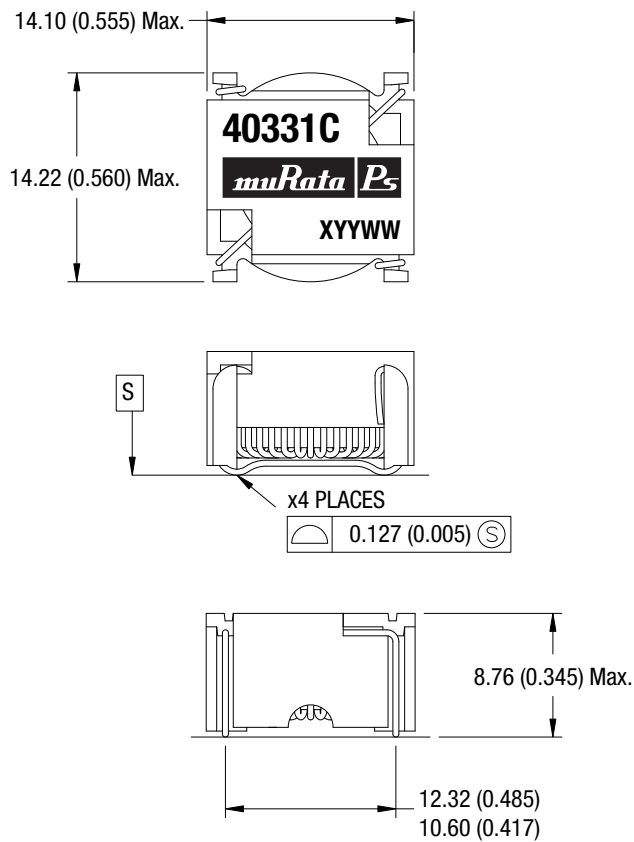
All specifications typical at T<sub>a</sub>=25°C

- 1 Maximum DC current occurs when either the inductance falls to 75% of its nominal value or when its temperature rise reaches 40°C, whichever is sooner.
- 2 For further information, please visit [www.murata-ps.com/rohs](http://www.murata-ps.com/rohs)



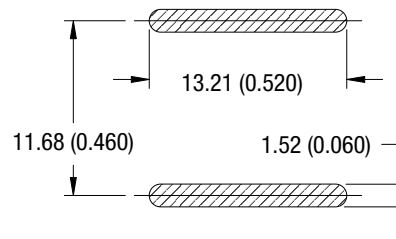
**PACKAGE SPECIFICATIONS**

**MECHANICAL DIMENSIONS**



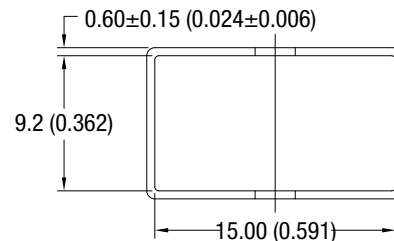
All dimensions in mm (inches).  
Package weight 3.2g.

**RECOMMENDED FOOTPRINT DETAILS**



All dimensions in mm (inches).

**TUBE OUTLINE DIMENSIONS**



All dimensions in mm (inches).  
Tube quantity: 30  
Tube material: Antistatic coated clear PVC  
Tube length: 475±2 [18.701±0.079]