



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!



## Contact us

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## FEATURES

- RoHS compliant
- 2.7µH to 330µH
- Surface mount
- J-STD-020C reflow
- Up to 8.10A 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

## DESCRIPTION

The 4100 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.	Min. - Max.	Max.	Max.
	µH	µH	A	mΩ
412R7C	2.7	2.1 - 3.5	8.1	14
414R7C	4.7	3.3 - 5.4	6.7	18
416R8C	6.8	4.7 - 7.8	5.7	20
41100C	10	7.3 - 12.2	4.7	24
41150C	15	10.6 - 17.6	4.0	28
41220C	22	15.8 - 26.3	3.3	33
41330C	33	23.8 - 39.6	2.7	38
41470C	47	35.5 - 59.2	2.2	62
41680C	68	52.2 - 87.0	1.75	110
41101C	100	75.2 - 125	1.47	158
41151C	150	114 - 189	1.16	247
41221C	220	164 - 274	1.03	377
41331C	330	247 - 412	0.83	462

## 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

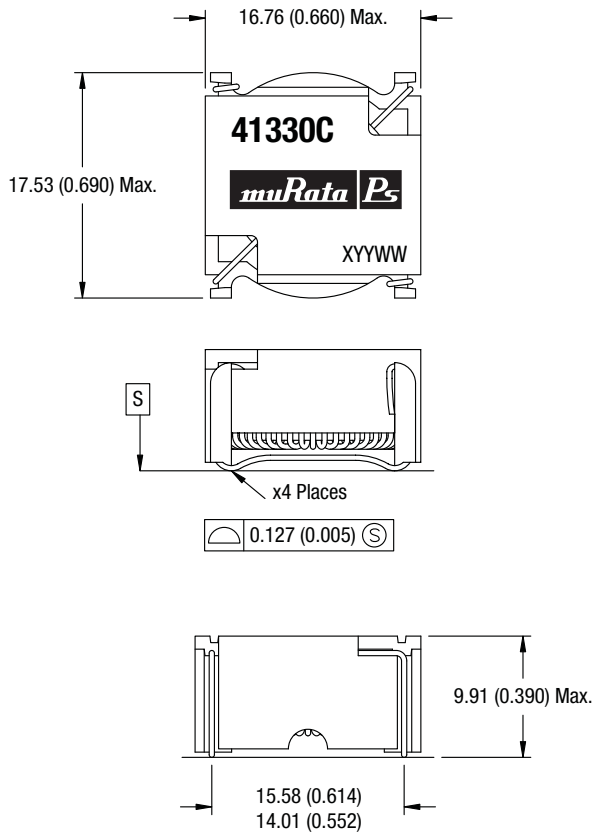
All specifications typical at T<sub>A</sub>=25°C

- 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)



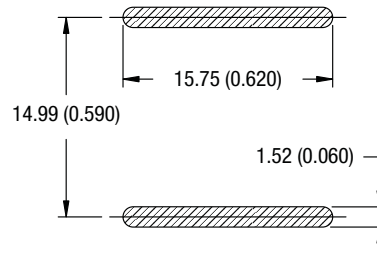
**PACKAGE SPECIFICATIONS**

**MECHANICAL DIMENSIONS**



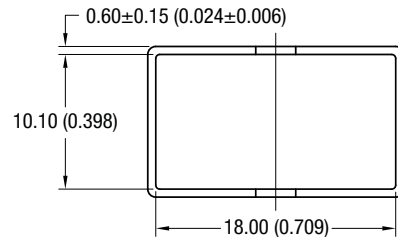
All dimensions in mm (inches).  
Package weight 5.6g Typ.

**RECOMMENDED FOOTPRINT DETAILS**



All dimensions in mm (inches).

**TUBE OUTLINE DIMENSIONS**



All dimensions in mm (inches).  
Tube quantity: 25  
Tube material: Antistatic coated clear PVC  
Tube length: 475±2mm (18.701±0.079)