



**Toroidal Surface Mount Inductors** 



						_
-	_	ΛІ		u	-	v.
		н.	u	n	_	o

		RoHS	comp	liant
--	--	------	------	-------

- 2.7μH to 330μH
- Surface mount
- J-STD-020C reflow
- Up to 8.10A loc
- 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				
	Inductance (10kHz, 10mVac)	Inductance Range (10kHz, 10mVac)	DC Current <sup>1</sup>	DC Resistance
Order Code	Nom.	Min Max.	Max.	Max.
	μН	μН	Α	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







**Toroidal Surface Mount Inductors** 

## **PACKAGE SPECIFICATIONS** MECHANICAL DIMENSIONS RECOMMENDED FOOTPRINT DETAILS 16.76 (0.660) Max. 41330C 15.75 (0.620) 14.99 (0.590) 17.53 (0.690) Max. muRata Ps 1.52 (0.060) XYYWW All dimensions in mm (inches). S TUBE OUTLINE DIMENSIONS x4 Places 0.127 (0.005) (S) 0.60±0.15 (0.024±0.006) 10.10 (0.398) 9.91 (0.390) Max. 18.00 (0.709) 15.58 (0.614) 14.01 (0.552) All dimensions in mm (inches). Tube quantity: 25 All dimensions in mm (inches). Tube material: Antistatic coated clear PVC Package weight 5.6g Typ. Tube length: 475±2mm (18.701±0.079)

Murata Power Solutions, Inc.
11 Cabot Boulevard, Mansfield, MA 02048-1151 U.S.A. ISO 9001 and 14001 REGISTERED

Murata Power Solutions, Inc. makes no representation that the use of its products in the circuits described herein, or the use of other technical information contained herein, will not infringe upon existing or future patent rights. The descriptions contained herein do not imply the granting of licenses to make, use, or sell equipment constructed in accordance therewith. Specifications are subject to change without notice.