



Toroidal Surface Mount Inductors



FEATURES

		RoHS	comp	liant
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- 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				
Order Code	Inductance (10kHz, 10mVac)	Inductance Range (10kHz, 10mVac)	DC Current ¹	DC Resistance
Order Code	Nom.	Min Max.	Max.	Max.
	μН	μH	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 ²	
Peak reflow temperature	245°C
Pin finish	Pure tin dip

All specifications typical at T_A=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







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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)

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Murata:

<u>41221</u> <u>416R8</u> <u>41100C</u> <u>41101C</u> <u>41150C</u> <u>41151C</u> <u>41220C</u> <u>41221C</u> <u>41330C</u> <u>41331C</u> <u>41470C</u> <u>41680C</u> <u>414R7C</u> 412R7C 416R8C 41680 41220 41330 41100 41101 41151 41150 41470 41331