



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!



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## FEATURES

- RoHS compliant
- 1.27μH to 17.6μH
- Up to 15.4A I<sub>DC</sub>
- Toroidal construction minimizes EMI
- Compact size
- Surface mount
- UL94 V-0 package materials
- Pick & place compatible
- J-STD-020C reflow
- Backward compatible with Sn/Pb soldering systems

## DESCRIPTION

The 4200 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 (100kHz, 0.1V <sub>AC</sub> )	DC Current <sup>1</sup>	DC Resistance	SRF	Package Dimensions (Max.)			Pad Dimensions		Carrier Tape Dimensions			Package Weight	Reel (Box) Quantity <sup>3</sup>
	±15%	Max.	Max.	Min.	A	B	C	D	E	F	G	H	Typ.	
	μH	A	mΩ	MHz	mm	mm	mm	mm	mm	mm	mm	mm	g	
42132C	1.27	14.3	2.5	244	15.70	9.4	15.37	12.70	11.18	20	24	9.5	3.5	300
42212C	2.10	11.5	3.8	162	15.70	9.4	15.37	12.70	11.18	20	24	9.5	3.4	(60)
42282C	2.84	13.9	3.5	116	17.00	9.9	17.00	14.48	12.45	24	32	10.5	5.0	250 (60)
42422C	4.23	11.4	5.2	90	17.00	9.9	17.00	14.48	12.45	24	32	10.5	4.8	
42652C	6.5	12.4	6.0	57	18.80	9.9	18.80	16.26	14.20	24	32	10.7	6.8	
42842C	8.45	10.4	8.0	50	18.80	9.9	18.80	16.26	14.20	24	32	10.7	6.4	180 (35)
42103C	10.2	15.4	6.0	38	23.88	9.9	23.88	21.08	17.78	32	44	1.08	12.3	
42183C	17.6	10.9	11.6	24	23.88	9.9	23.88	21.08	17.78	32	44	10.8	12.5	

## ABSOLUTE MAXIMUM RATINGS

Operating temperature range	-40°C to +125°C
Storage temperature range	-40°C to +130°C

## SOLDERING INFORMATION<sup>2</sup>

Peak reflow temperature	245°C
Pin finish	Pure tin dip
Moisture sensitivity level	1

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

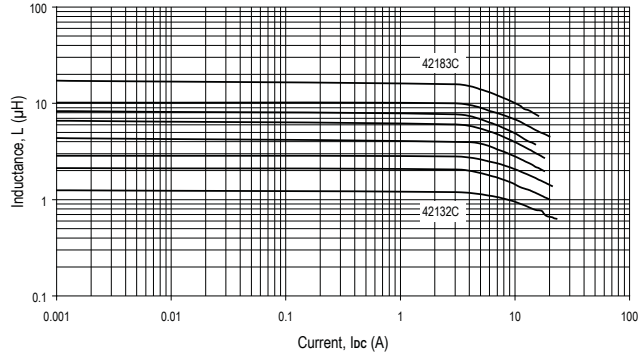
1 Maximum DC current occurs when the temperature rise reaches 55°C.

2 For further information, please visit [www.murata-ps.com/rohs](http://www.murata-ps.com/rohs)

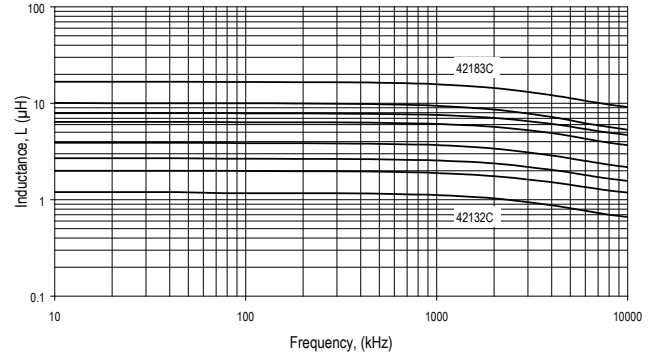
3 If components are required in tape & reel format, suffix order code with '-R', e.g. 42132C-R



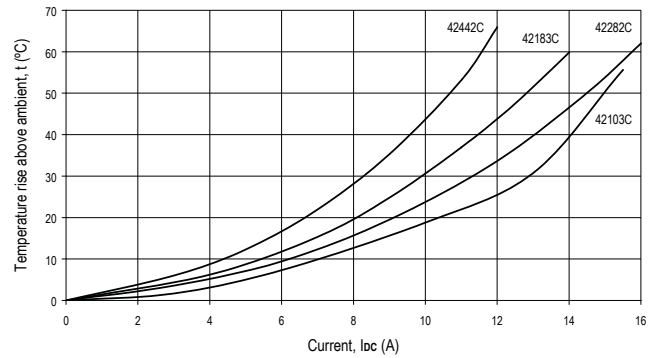
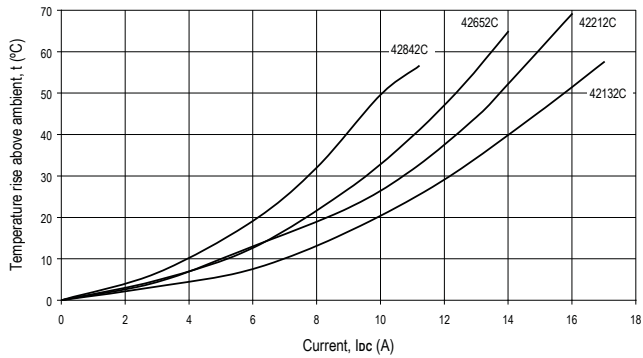
**INDUCTANCE Vs CURRENT**



**INDUCTANCE Vs FREQUENCY**



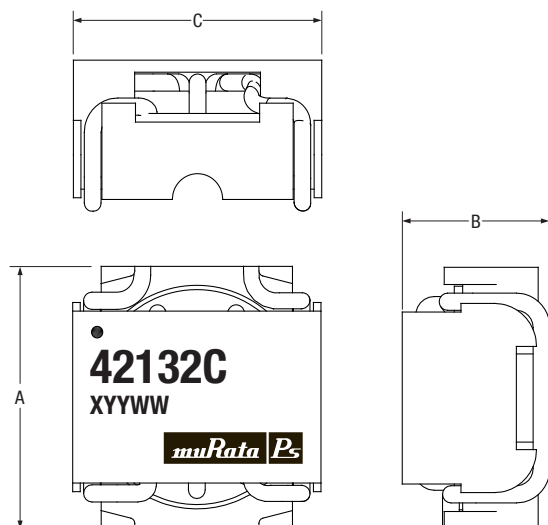
**TEMPERATURE Vs CURRENT**



## PACKAGE SPECIFICATIONS

### MECHANICAL DIMENSIONS

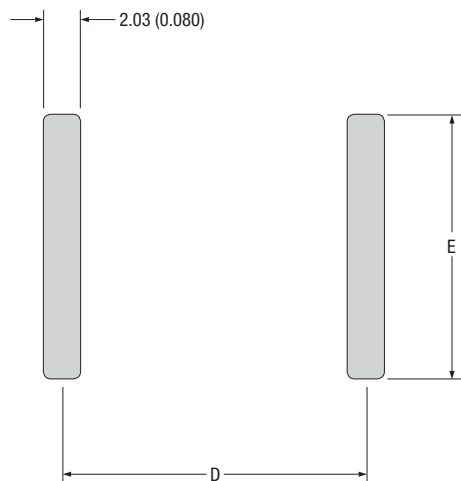
See Selection Guide for dimensions.



Package weight: See Selection Guide.

### RECOMMENDED FOOTPRINT DETAILS

See Selection Guide for dimensions.

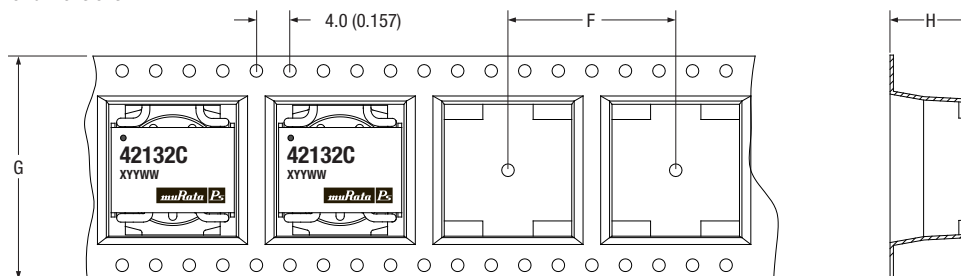


All dimensions in mm (inches).

## TAPE & REEL SPECIFICATIONS

### TAPE OUTLINE DIMENSIONS

See Selection Guide for dimensions.



All dimensions in mm (inches).  
See Selection Guide for package quantities.