

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<sup>1</sup>
- Up to 10.5A DC
- 47µH to 680µH
- High energy storage, very low resistance
- UL 94V-0 packaging materials
- J-STD-020D.1 reflow
- Custom inductance values available

### PRODUCT OVERVIEW

The 6000B series is a range of high-current, surface-mount power inductors. They are designed for use in power applications such as DC-DC converters, energy storage and input or output filtering. The products are supplied in tape and reel for high-volume, automated surface-mount assembly.

### SELECTION GUIDE

Order Code	Inductance, L	DC Current <sup>2</sup>	SRF	DC Resistance
	0.1V@100KHz (±15%) µH	Max. A	Typ. MHz	Max. mΩ
<b>60B473C</b>	47	10.5	7.45	13
<b>60B683C</b>	68	9.0	6.07	17
<b>60B104C</b>	100	7.5	4.98	25
<b>60B154C</b>	150	6.0	3.90	38
<b>60B224C</b>	220	5.0	3.21	50
<b>60B334C</b>	330	4.0	2.66	80
<b>60B474C</b>	470	3.5	2.15	100
<b>60B684C</b>	680	3.0	1.59	135

### ABSOLUTE MAXIMUM RATINGS

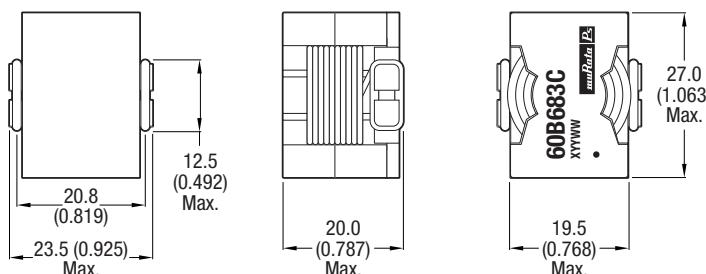
Operating temperature range - free air	-40°C to 85°C
Storage temperature range	-40°C to 125°C

### SOLDERING INFORMATION<sup>1</sup>

Peak reflow solder temperature	245°C
Pin finish	Pure tin
Moisture sensitivity level <sup>3</sup>	1

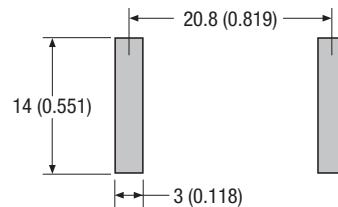
### PACKAGE SPECIFICATIONS

#### Mechanical Dimensions



Package weight: 37g Typ.

#### Recommended Pad Layout



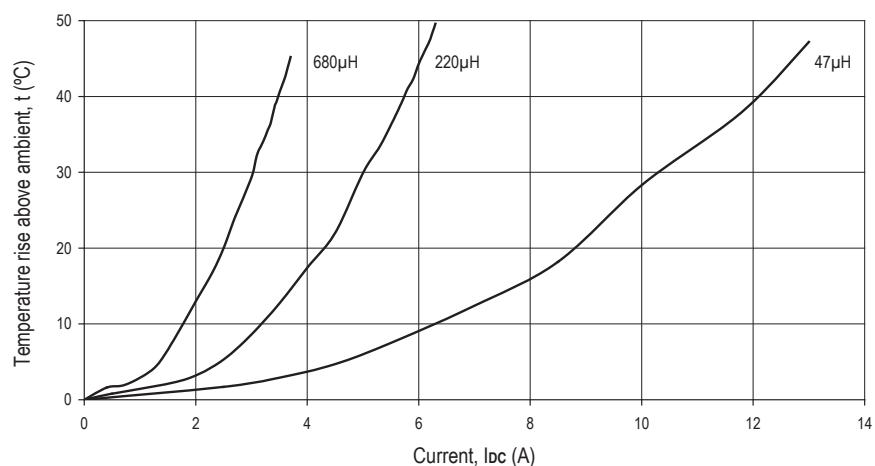
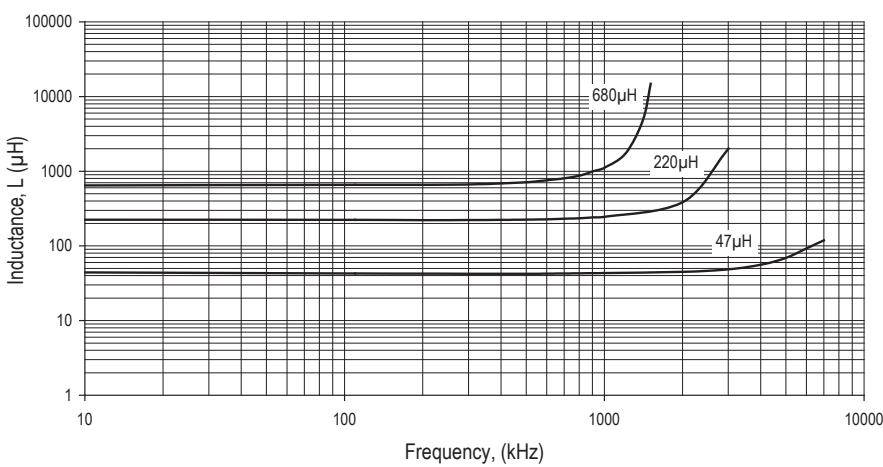
All dimensions in mm (inches)

Specifications typical at  $T_A = 25^\circ\text{C}$

- 1 For further information, please visit [www.murata-ps.com/rohs](http://www.murata-ps.com/rohs)
- 2 The maximum DC current is the value at which the inductance falls to 75% of its nominal value or when its temperature rise reaches 40°C, whichever is sooner.
- 3 Representative samples of the product were subjected to the conditioning described in IPC/JEDEC J-STD-020D and passed electrical testing, package coplanarity and visual inspection which revealed no external cracks or changes in package body flatness.

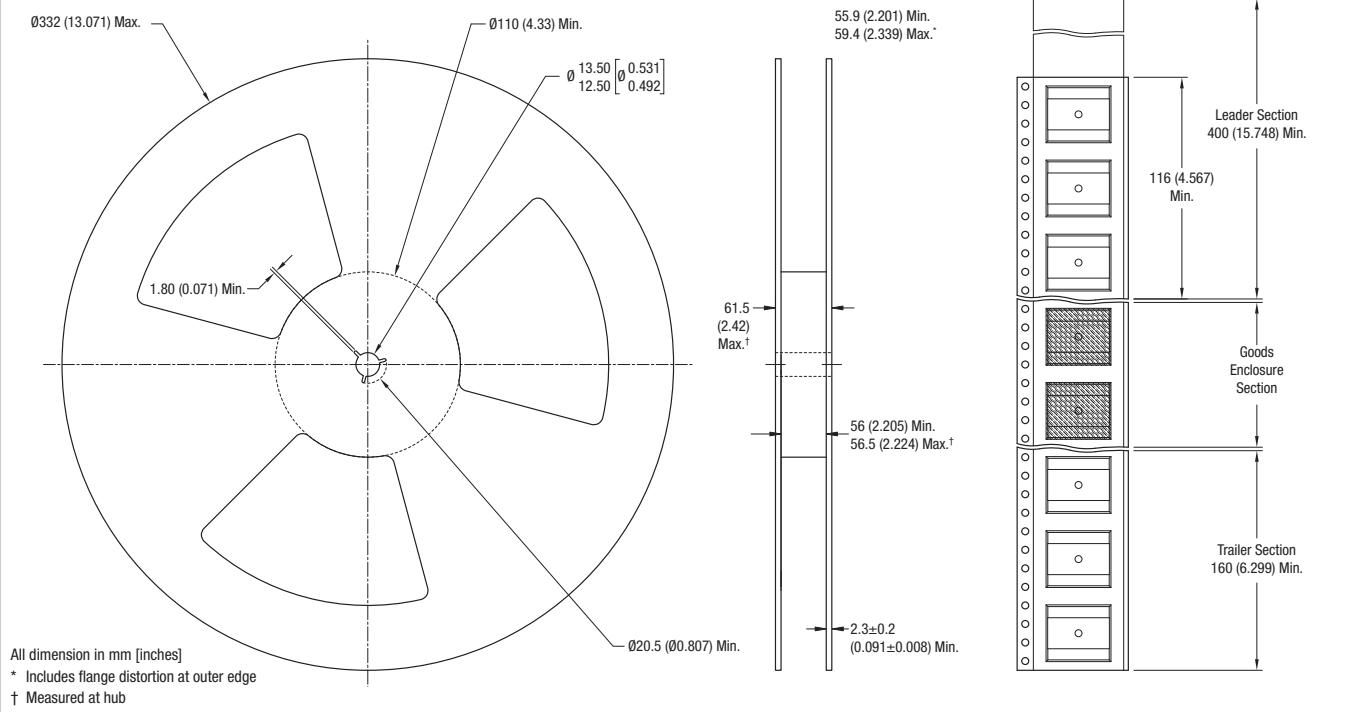


For full details go to  
[www.murata-ps.com/rohs](http://www.murata-ps.com/rohs)

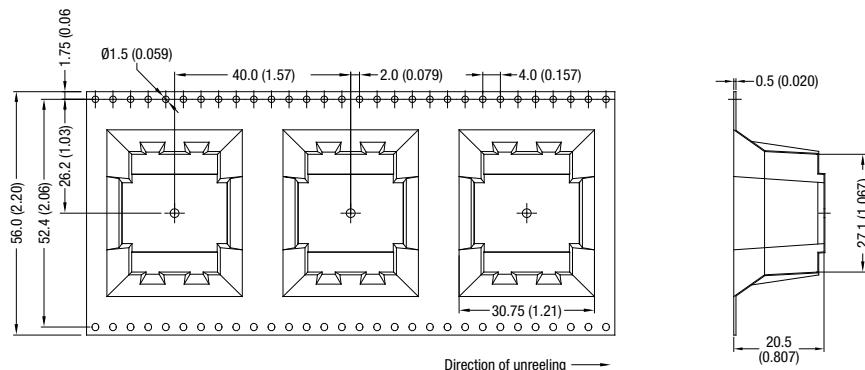
**TEMPERATURE Vs CURRENT****INDUCTANCE Vs FREQUENCY**

**PACKAGE SPECIFICATIONS**

**Mechanical Dimensions**



**Tape Outline Dimensions**



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ISO 9001 and 14001 REGISTERED

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