



## FEATURES

- RoHS compliant<sup>1</sup>
- Up to 10.5A I<sub>DC</sub>
- 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.

# 6000B Series

Surface Mount Power Inductors

## 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

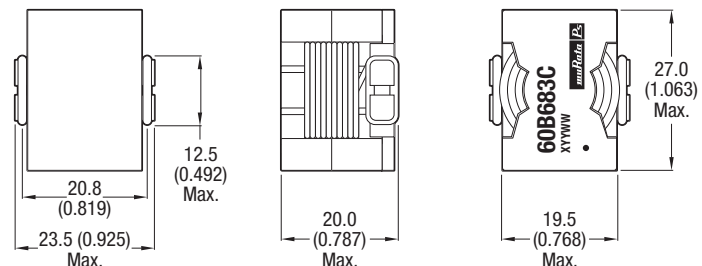
Operating free air temperature range	-40°C to 85°C
Storage temperature range	-40°C to 125°C

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

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

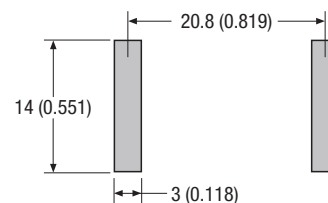
## PACKAGE SPECIFICATIONS

### Mechanical Dimensions



Package weight: 37g Typ.

### Recommended Pad Layout



All dimensions in mm (inches)

## PACKAGING INFORMATION

Tray	30 per tray
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Specifications typical at T<sub>a</sub> = 25°C

<sup>1</sup> For further information, please visit [www.murata-ps.com/rohs](http://www.murata-ps.com/rohs)

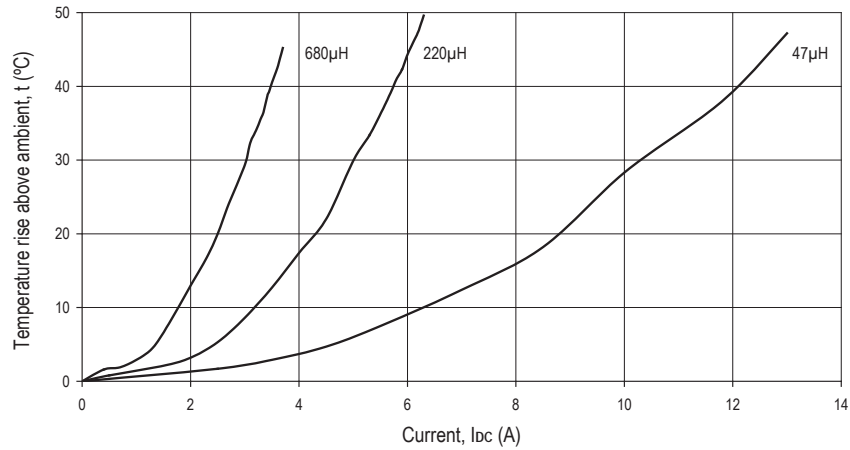
<sup>2</sup> The maximum DC current is the value at which the inductance falls to 75% of its nominal value or when its temperature rise reaches 40°C, whichever is sooner.

<sup>3</sup> 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.

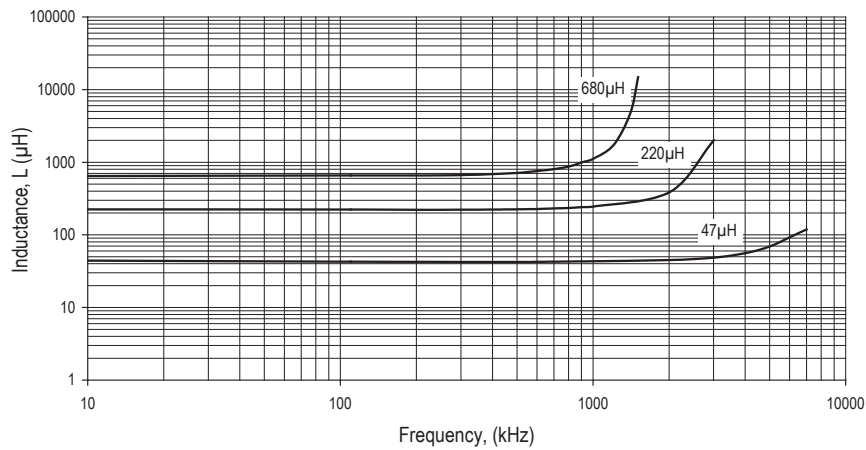


For full details go to  
[www.murata-ps.com/rohs](http://www.murata-ps.com/rohs)

**TEMPERATURE Vs CURRENT**



**INDUCTANCE Vs FREQUENCY**



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