

## **Murata Power Solutions**

# **Surface Mount Power Inductors**

**6000B Series** 

6083	34C
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RoHS	comp	liant
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■ Up to 10.5A loc

■ 47µH to 680µH

■ High energy storage, very low resistance

■ UL 94V-0 packaging materials

J-STD-020D.1 reflow

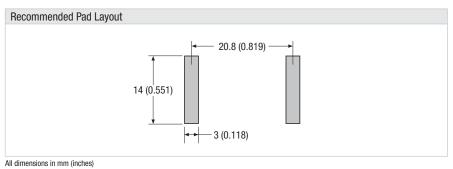
Custom inductance values available

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

# Operating temperature range - free air Storage temperature range -40°C to 85°C -40°C to 125°C SOLDERING INFORMATION¹ Peak reflow solder temperature 245°C

Pin finish	Pure tin
Moisture sensitivity level <sup>3</sup>	1
PACKAGE SPECIFICATIONS	
Mechanical Dimensions	

# Mechanical Dimensions 27.0 (1.063) Max. Package weight: 37g Typ.



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

**SELECTION GUIDE** 

**ABSOLUTE MAXIMUM RATINGS** 

- 1 For further information, please visit 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.

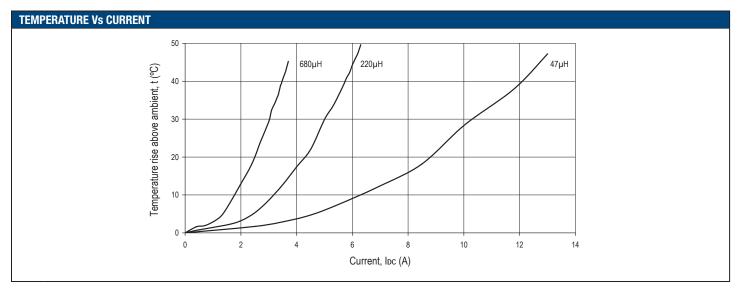
### **PRODUCT OVERVIEW**

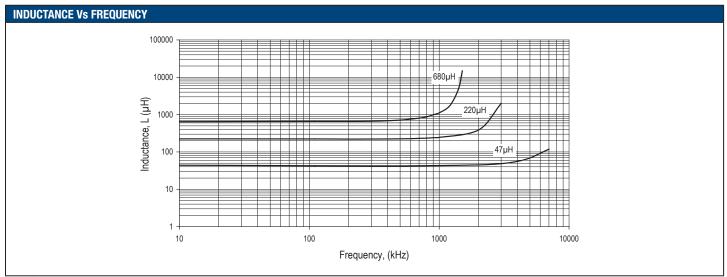
The 6000B series is a range of high-current, surface-mount power inductors. They are designed for use in power applications such as DC-DC converters, energy storage and input or output filtering. The products are supplied in tape and reel for high-volume, automated surface-mount assembly.





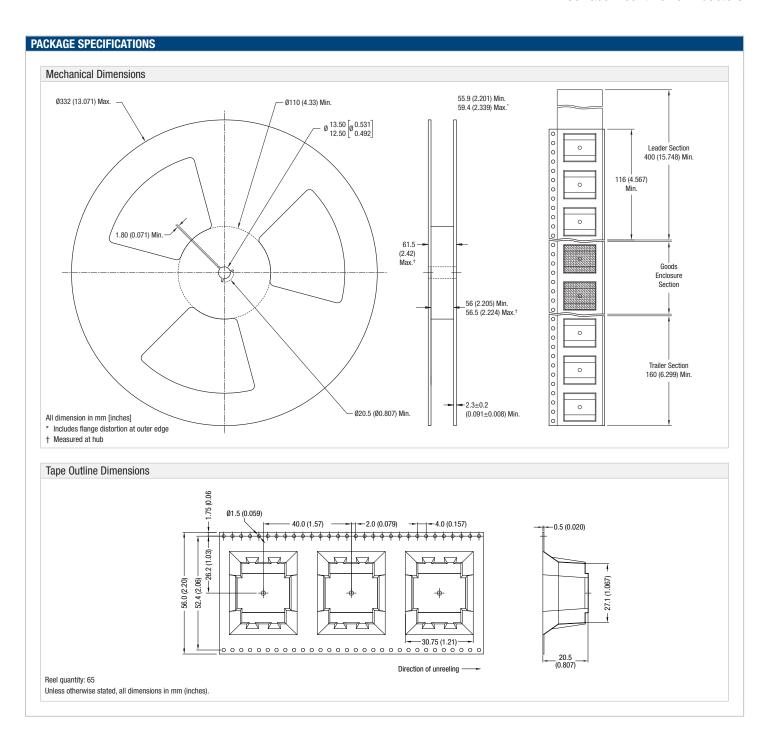
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