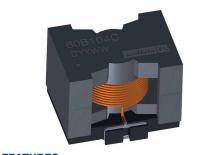


6000B Series

Surface Mount Power Inductors



FEATURES

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

PRODUCT OVERVIEW

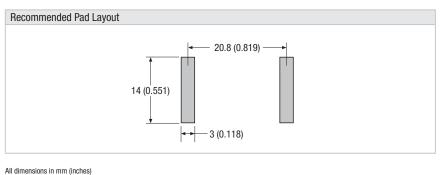
The 6000B series is a range of high-current, surface-mount power inductors. They are designed for use in power applications such as DC-DC converters, energy storage and input or output filtering.

SELECTION GUIDE				
	Inductance, L	DC Current ²	SRF	DC Resistance
Order Code	0.1V@100KHz (±15%)	Max.	Тур.	Max.
	μН	А	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

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

SOLDERING INFORMATION ¹		
Peak reflow solder temperature	245°C	
Pin finish	Pure tin	
Moisture sensitivity level ³	1	

PACKAGE SPECIFICATIONS **Mechanical Dimensions** 27.0 (1.063) Max. (0.492)__20.8_ (0.819) Max. 19.5 (0.768) 20.0 (0.787) 23.5 (0.925) Max. Max. Package weight: 37g Typ.



Carton

PACKAGING INFORMATION

Specifications typical at T_A = 25°C

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.



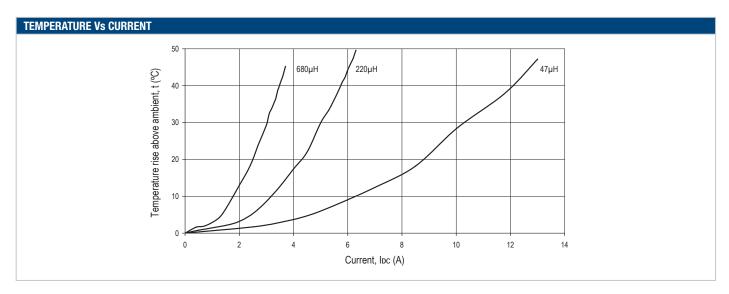


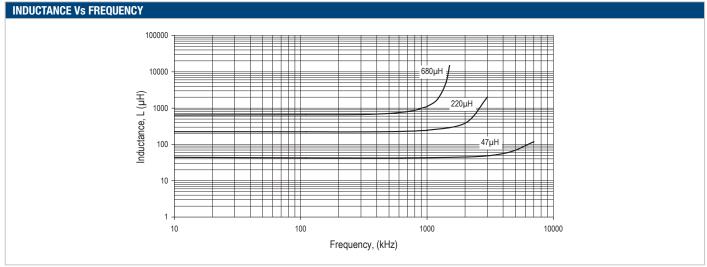
30 per carton



6000B Series

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- Aircraft equipment
- Aerospace equipment
- Undersea equipment
- Power plant control equipment
- Medical equipment
- Transportation equipment (automobiles, trains, ships, etc.)
- Traffic signal equipment
- Disaster prevention / crime prevention equipment
- Data Processing equipment

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Refer to: https://www.murata.com/en-eu/products/power/requirements

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