

3000B Series

Surface Mount Power Inductor



FEATURES

- Low-profile surface-mount design
- Inductance Range from 85nH to 220nH
- Rated current up to 78Apk
- Materials meet UL94V-0
- Custom inductance values available
- RoHS compliant
- J-STD-020 D.1 reflow

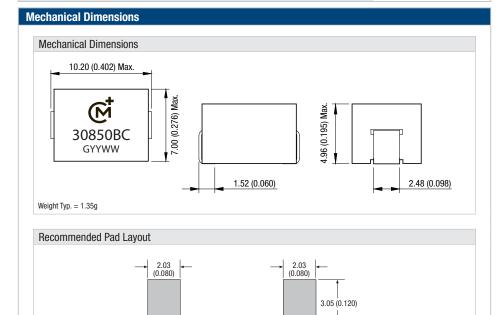
PRODUCT OVERVIEW

The 3000B series are a range of high-current, surface-mount bead inductors, suited to a variety of applications. The products are designed for noise suppression in high-frequency, high-current switching power supplies, DC-DC converters, DC-AC inverters and VRMs.

SELECTION GUIDE									
Order Code	Inductance (1MHz, 0.1V)		IDC ³	Isat (Typ.)4		DC Resistance			
	±20%	Typ. @ I _{DC}	Тур.	25°C	100°C	Тур.	Max.		
	nH	nH	Α	Α	Α	mΩ	mΩ		
30850BC	85	84	37	78	71	0.29	0.42		
30101BC	100	102	37	66	58	0.29	0.42		
30121BC	114	112	37	59	50	0.29	0.42		
30151BC	154	143	37	43	38	0.29	0.42		
30221BC	200	169	29	32	29	0.29	0.42		

ABSOLUTE MAXIMUM RATINGS	
Operating temperature range	-40°C to +130°C
Storage temperature range	-40°C to +155°C

SOLDERING INFORMATION ¹	
Peak reflow solder temperature	245°C
Pin finish	SAC305
Moisture sensitivity level ²	1



Specifications typical at $T_{\rm A} = 25 {\rm ^{\circ}C}$

1 For further information, please visit www.murata-ps.com/rohs

Unless otherwise stated, all dimensions in mm (inches) \pm 0.25 (0.010).

2 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.

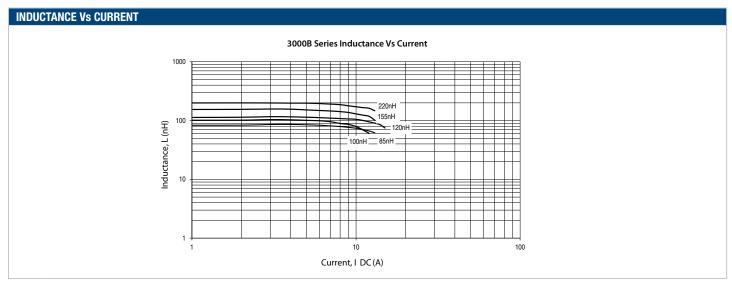
6.35 (0.250)

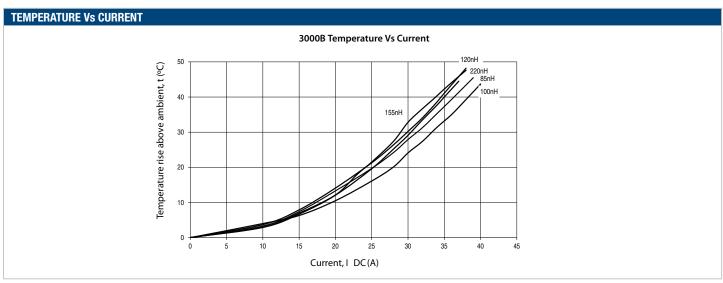
- $3 l_{0c}$ is the value at which the inductance falls to 80% of its nominal value or when its temperature reaches 40° C, which ever is sooner.
- 4 I_{SAT} is the value at which the inductance falls to 80% of its nominal value.

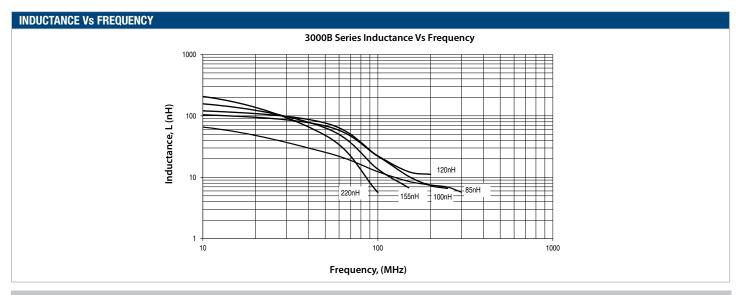




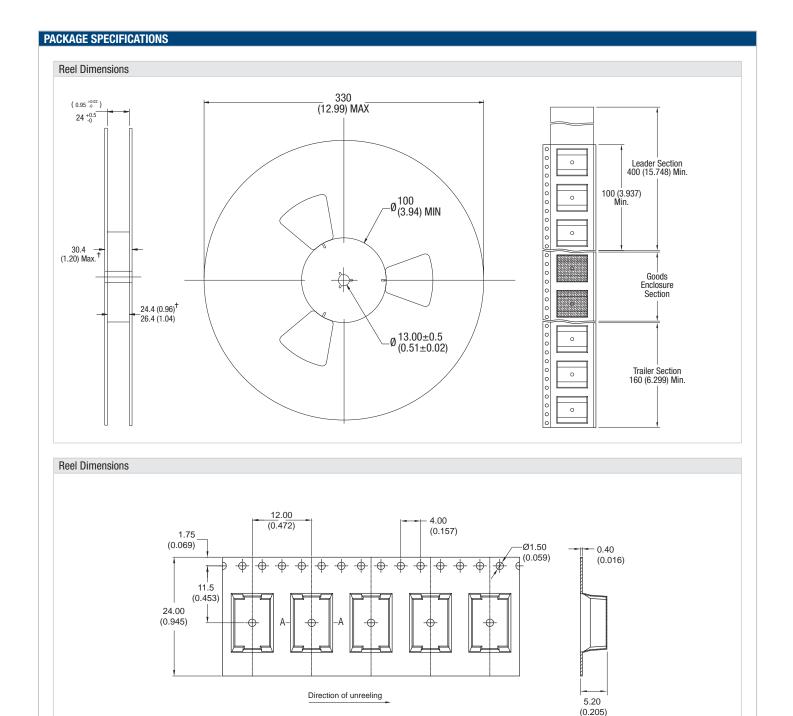
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Reel quantity: 1000