

Excellent Integrated System Limited

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

Murata Power Solutions Inc. 30101BC

For any questions, you can email us directly: <u>sales@integrated-circuit.com</u>



Distributor of Murata Power Solutions Inc.: Excellent Integrated System Limited Datasheet of 30101BC - FIXED IND 100NH 37A 0.42 MOHM Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com





FEATURES

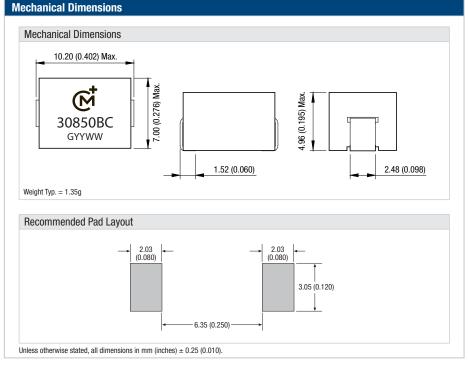
- Low-profile surface-mount design
- Inductance Range from 85nH to 220nH
- Rated current up to 78Apk
- Materials meet UL94V-0
- Custom inductance values available
- RoHS compliant
- J-STD-020 D.1 reflow

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. **3000B Series**

Surface Mount Power Inductor

Order Code	Inductance (1MHz, 0.1V)		DC3	DC ³ ISAT (Typ		p.) ⁴ DC Resistance	
	±20%	Typ. @ I _{DC}	Тур.	25°C	100°C	Тур.	Max
	nH	nH	А	Α	А	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
BSOLUTE MAXIMUM RATINGS Deperating temperature range						-40°C to +130°C	
Storage temperature range						-40°C to +155°C	
OLDERING INFO	RMATION ¹						
Peak reflow solder temperature						245°C	
Pin finish						SAC305	
Moisture sensitivity level ²						1	



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

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

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.

 $3 \, l_{DC}$ 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 l_{SAT} is the value at which the inductance falls to 80% of its nominal value.



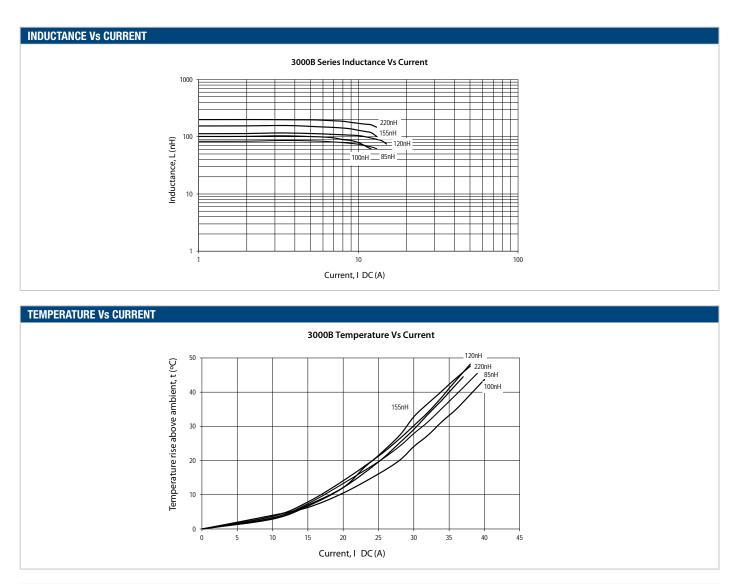
www.murata-ps.com/support



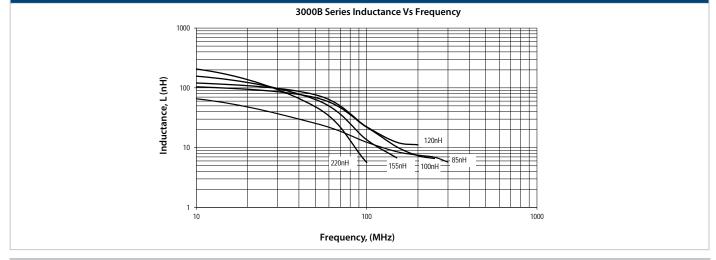
muRata Ps Murata Power Solutions

3000B Series

Surface Mount Power Inductor



INDUCTANCE Vs FREQUENCY





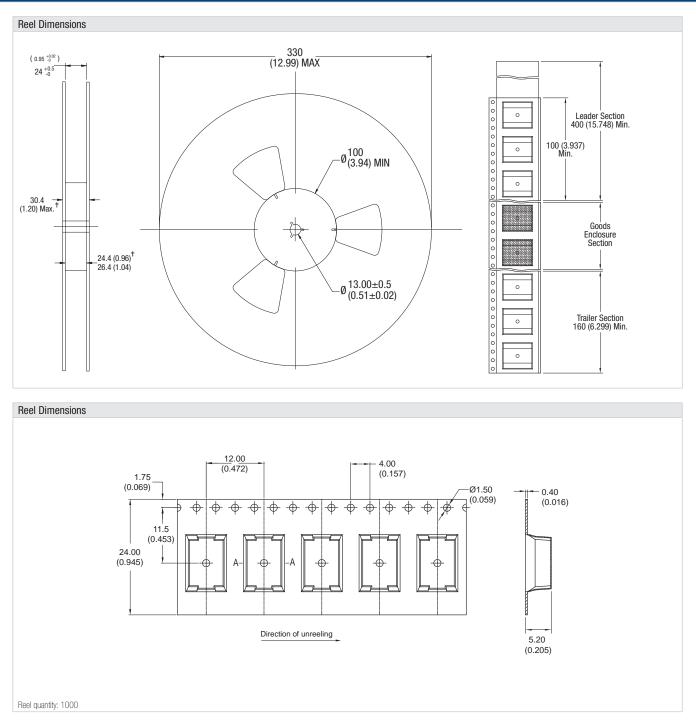
Distributor of Murata Power Solutions Inc.: Excellent Integrated System Limited Datasheet of 30101BC - FIXED IND 100NH 37A 0.42 MOHM Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

muRata Ps Murata Power Solutions

3000B Series

Surface Mount Power Inductor

PACKAGE SPECIFICATIONS



Murata Power Solutions, Inc.

11 Cabot Boulevard, Mansfield, MA 02048-1151 U.S.A. ISO 9001 and 14001 REGISTERED

Murata Power Solutions, Inc. makes no representation that the use of its products in the circuits described herein, or the use of other technical information contained herein, will not infringe upon existing or future patent rights. The descriptions contained herein do not imply the granting of licenses to make, use, or sell equipment constructed in accordance therewith. Specifications are subject to change without notice. @ 2013 Murata Power Solutions, Inc.

www.murata-ps.com/support