

3000A Series

Surface Mount Power Inductor



FEATURES

- Low-profile surface-mount design
- Inductance Range from 80nH to 200nH
- Rated current up to 57Apk
- Materials meet UL94V-0
- Custom inductance values available
- RoHS compliant
- J-STD-020 D.1 reflow

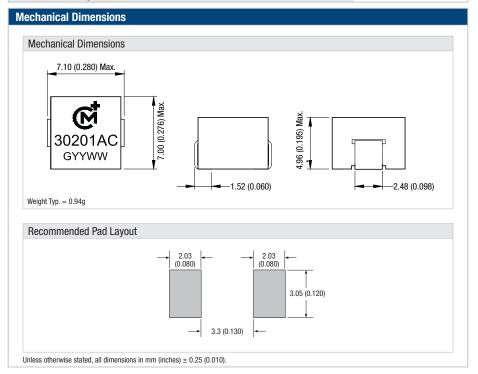
PRODUCT (OVERVIEW
-----------	----------

The 3000A 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							
	Inductance (1MHz, 0.1V)		IDC ³	Isat (Typ.)4		DC Resistance	
Order Code	±20%	Typ. @ I _{DC}	Тур.	25°C	100°C	Тур.	Max.
	nH	nH	Α	Α	Α	mΩ	mΩ
30800AC	80	82	37	57	47	0.19	0.35
30101AC	97	105	36	48	41	0.20	0.35
30151AC	145	120	29	33	29	0.19	0.35
30201AC	191	162	22	24	22	0.21	0.35

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	250°C			
Pin finish	SAC305			
Moisture sensitivity level ²	1			



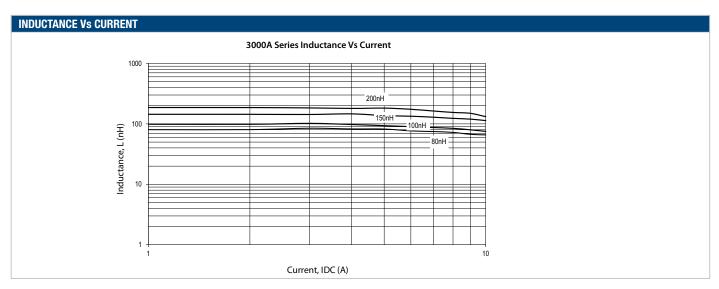
Specifications typical at $T_A = 25$ °C

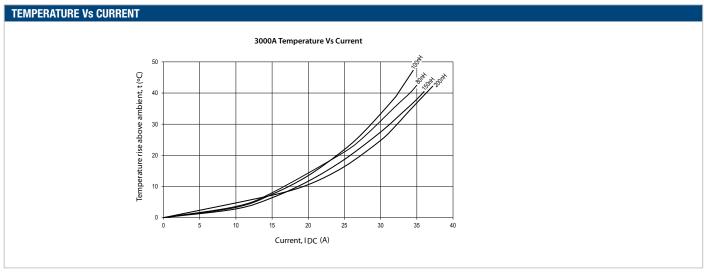
- 1 For further information, please visit www.murata-ps.com/rohs
- 2 Representative samples of the product were subjected to the conditioning described in IPC/JEDEC J-STD-020D and passed electrical testing, package coplanarity and visual inspection which revealed no external cracks or changes in package 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 $\ensuremath{\mathsf{I}_{\text{SAT}}}$ is the value at which the inductance falls to 80% of its nominal value.

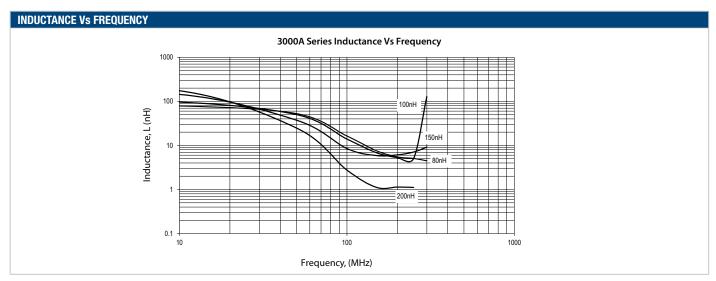




Surface Mount Power Inductor



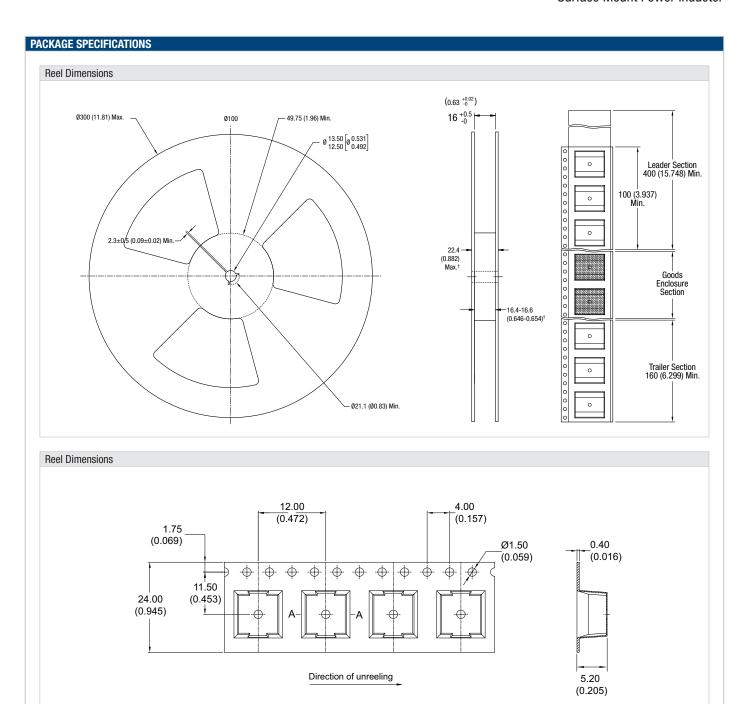








Surface Mount Power Inductor



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.