



## **Toroidal Surface Mount Power Inductors**



EΑ		

RoHS	comp	liant
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- Up to 3A loc
- 0.42µH to 100µH
- Low RDC
- Small footprint
- Ultra-low profile
- UL 94V-0 packaging materials
- J-STD-020D reflow
- Custom inductance values available

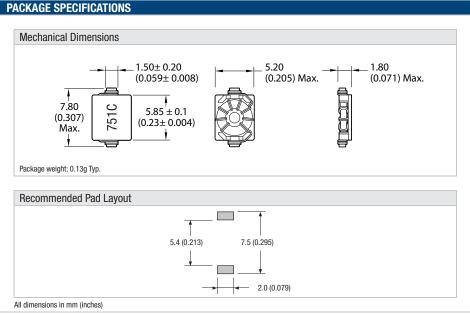
## **PRODUCT OVERVIEW**

The 8300 series is a range of miniature, surface-mount power inductors. They are designed for use in power applications with restricted PCB space and height, such as handheld devices, DC-DC converters and notebook computers. The products are supplied in tape and reel for high-volume, automated surface-mount assembly.

ELECTION GUIDE				
	Inductance <sup>3</sup>	DC Current <sup>2</sup>	Saturation Current	DC Resistance
Order Code	±20%	Max.	Тур.	Max.
	μН	Α	Α	mΩ
83421C	0.42	3.00	5.69	24
83751C	0.75	2.70	4.55	30
83122C	1.2	1.70	3.36	65
83172C	1.7	1.55	2.71	73
83232C	2.3	1.40	2.35	86
83332C	3.3	1.35	1.79	98
83472C	4.7	1.10	1.66	130
83682C	6.8	0.95	1.30	150
83852C	8.5	0.85	1.15	167
83103C	10	0.75	1.04	185
83153C	15	0.60	0.85	300
83223C	22	0.50	0.74	350
83333C	33	0.42	0.59	600
83473C	47	0.35	0.48	710
83683C	68	0.30	0.41	850
83823C	82	0.27	0.37	1250
83104C	100	0.24	0.34	1320

ABSOLUTE MAXIMUM RATINGS			
Operating free air temperature range	-40°C to 85°C		
Storage temperature range	-40°C to 150°C		

SOLDERING INFORMATION <sup>1</sup>		
Peak reflow solder temperature	260°C	
Pin finish	Tin	
Moisture sensitivity level <sup>4</sup>	1	



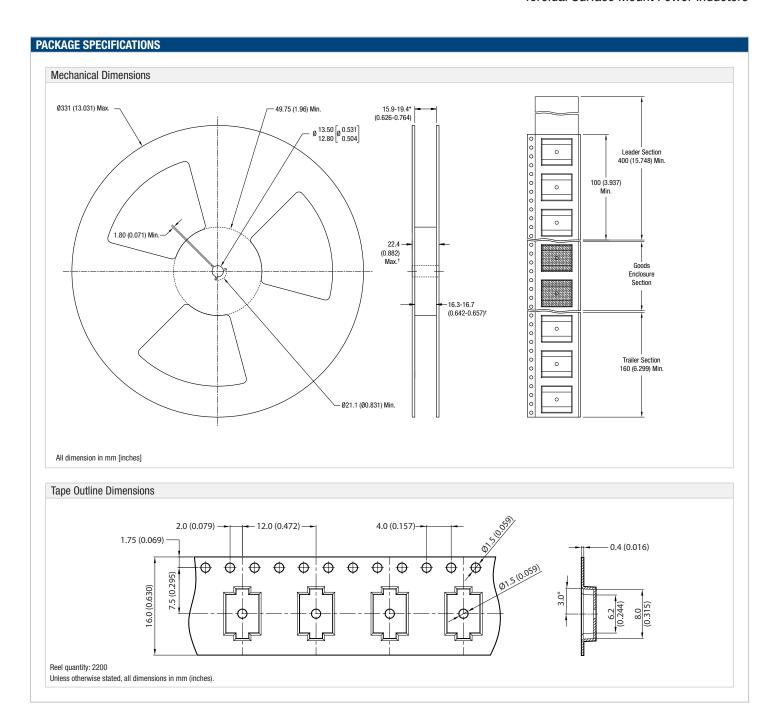




Specifications typical at T<sub>A</sub> = 25°C

- 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 Quoted inductance values are stated with no load.
- 4 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.

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

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