

# 2300 Series

### **Bobbin Wound Surface Mount Inductors**



#### **FEATURES**

■ Up to 2.1A loc

■ 2.2µH to 220µH

Optional integral EMI shield

Low RDC

■ Surface mount

Compact size

Tape and reel packaging

■ J-STD-020C reflow

Backward compatible with Sn/Pb soldering systems

#### **DESCRIPTION**

The 2300 series is a range of bobbin-wound, surface-mount inductors designed for use in switching power supply, and power line filter circuits. The parts are suitable for any application requiring a high saturation current in a miniature surface-mount footprint. Where EMI is a critical factor, the devices are available with an integral ferrite EMI shield.

LECTION GUIDE (UNSHIELDED TYPES)					
Order Code	Inductance (1kHz, 100mVac)	Inductance Range (1kHz, 100mV <sub>AC</sub> )	DC Current <sup>1</sup>	DC Resistance	
	Nom.	Min Max.	Max.	Max.	
	μH	μH	Α	Ω	
232R2C	2.2	1.7 - 2.8	2.10	0.040	
233R3C	3.3	2.3 - 3.9	1.80	0.058	
234R7C	4.7	3.6 - 6.0	1.48	0.068	
236R8C	6.8	5.1 - 8.6	1.22	0.102	
23100C	10	7.6 - 12.7	1.02	0.138	
23150C	15	11.3 - 18.9	0.86	0.210	
23220C	22	16.8 - 28.1	0.74	0.361	
23330C	33	24.6 - 41.0	0.64	0.497	
23470C	47	34.6 - 57.6	0.55	0.683	
23680C	68	51.0 - 85.0	0.49	1.051	
23101C	100	74.2 - 124	0.43	1.281	

SELECTION GUIDE (	SELECTION GUIDE (SHIELDED TYPES)					
Order Code	Inductance (1kHz, 100mVac)	Inductance Range (1kHz, 100mVac)	DC Current <sup>1</sup>	DC Resistance		
	Nom.	Min Max.	Max.	Max.		
	μН	μН	Α	Ω		
23S2R2C	2.2	1.8 - 3.0	2.10	0.025		
23S3R3C	3.3	2.7 - 4.5	1.80	0.031		
23S4R7C	4.7	3.8 - 6.4	1.60	0.044		
23S6R8C	6.8	5.2 - 8.6	1.40	0.064		
23S100C	10	7.5 - 12.6	1.18	0.087		
23S120C	12	9.4 - 15.6	1.08	0.107		
23S150C	15	11.4 - 19.0	0.96	0.131		
23S180C	18	13.6 - 22.6	0.88	0.143		
23S220C	22	16.0 - 26.7	0.80	0.175		
23S270C	27	20.0 - 33.3	0.72	0.218		
23S330C	33	24.4 - 40.7	0.65	0.241		
23S390C	39	29.3 - 48.8	0.60	0.370		
23S470C	47	34.6 - 57.7	0.54	0.460		
23S560C	56	42.4 - 70.6	0.50	0.509		
23S680C	68	50.9 - 84.9	0.45	0.641		
23S101C	100	75.8 - 126	0.37	0.782		
23S151C	150	112 - 187	0.30	1.190		
23S221C	220	167 - 279	0.25	2.280		

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

SOLDERING INFORMATION <sup>2</sup>				
Peak reflow temperature	250°C			
Pin finish	Hot dipped tin			



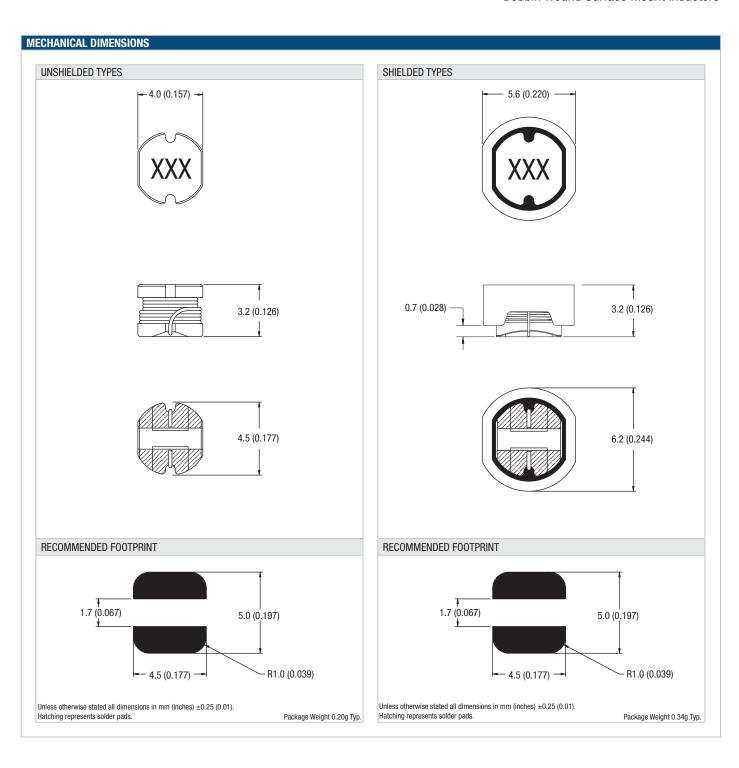
- 1 The maximum DC current is the value at which the inductance falls to 75% of its nominal value or when its temperature rise reaches 40°C, whichever is sooner.
- 2 For further information, please visit www.murata-ps.com/rohs



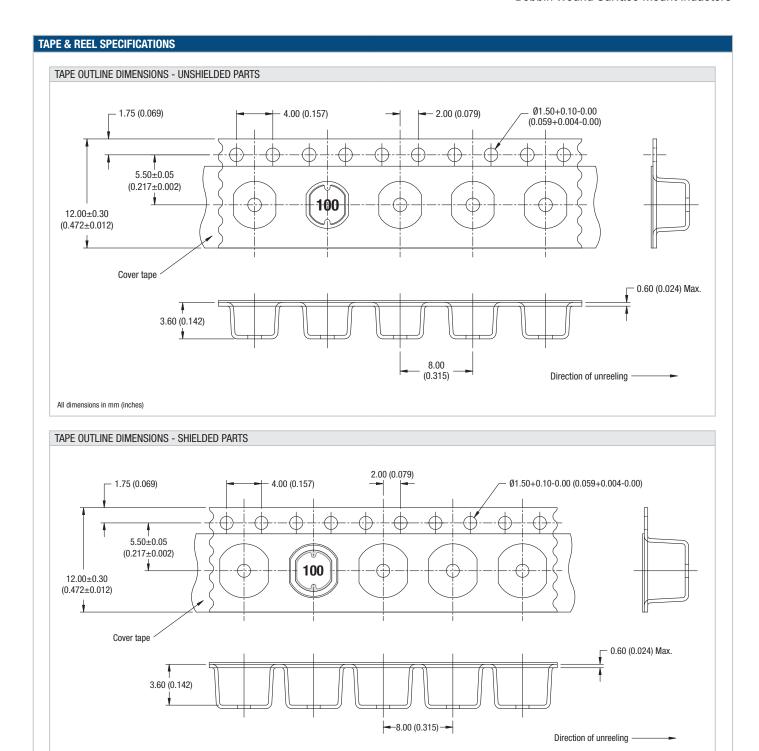




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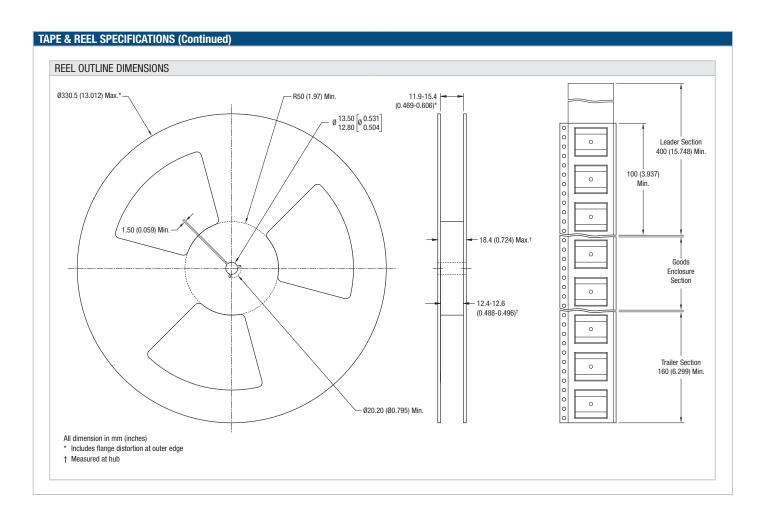
**Bobbin Wound Surface Mount Inductors** 



All dimensions in mm (inches)



**Bobbin Wound Surface Mount Inductors** 





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- Medical equipment
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- Traffic signal equipment
- Disaster prevention / crime prevention equipment
- Data Processing equipment

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