Murata Power Solutions

2600 Series

Bobbin Wound Surface Mount Inductors



FEATURES

- RoHS compliant
- Up to 4.6A I_{DC}
- 3.3µH to 680µH
- Optional integral EMI shield
- Low R_{DC}
- Surface mount
- Compact size
- Tape and reel packaging
- J-STD-020C reflow
- Backward compatible with Sn/Pb soldering systems

DESCRIPTION

The 2600 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.

SELECTION GUIDE (UNSHIELDED TYPES)

Order Code	Inductance (1kHz, 100mVAC)	Inductance Range (1kHz, 100mVAC)	DC Current[1]	DC Resistance	SRF (100mVrms)
	Nom.	Min. - Max.	Max.	Max.	Nom.
	µH	µH	A	mΩ	MHz
263R3C	3.3	2.13-3.95	4.40	35	53.0
264R7C	4.7	3.41-6.34	3.60	45	37.0
266R8C	6.8	5.00-9.28	3.10	54	31.0
26100C	10	8.00-12.0	2.60	60	24.8
26120C	12	7.95-14.8	2.42	68	24.0
26150C	15	12.0-18.0	2.27	90	20.2
26180C	18	12.9-24.0	2.10	87	19.0
26220C	22	17.6-26.4	1.95	100	16.9
26330C	33	26.4-39.6	1.50	120	12.8
26470C	47	42.3-51.7	1.28	170	10.2
26680C	68	61.2-74.8	1.11	220	8.37
26101C	100	90.0-110	0.97	350	6.56
26151C	150	135-165	0.78	470	5.20
26221C	220	198-242	0.66	730	4.00
26331C	330	297-363	0.52	1150	3.14
26471C	470	423-517	0.42	1480	2.54
26681C	680	612-748	0.28	2250	1.97

SELECTION GUIDE (SHIELDED TYPES)

Order Code	Inductance (1kHz, 100mVAC)	Inductance Range (1kHz, 100mVAC)	DC Current[1]	DC Resistance	SRF (100mVrms)
	Nom.	Min. - Max.	Max.	Max.	Nom.
	µH	µH	A	mΩ	MHz
26S3R3C	3.3	2.69-5.46	4.60	33	46.0
26S4R7C	4.7	3.58-7.15	3.80	38	38.0
26S6R8C	6.8	4.60-8.97	3.21	43	30.0
26S100C	10	8.00-12.0	2.65	50	22.9
26S120C	12	8.42-15.9	2.55	58	21.0
26S150C	15	12.0-18.0	2.45	60	19.7
26S180C	18	13.4-25.6	2.32	74	16.0
26S220C	22	18.7-26.4	2.20	70	15.5
26S330C	33	28.1-39.6	1.80	100	11.5
26S470C	47	40.0-56.4	1.50	120	9.44
26S680C	68	57.8-81.6	1.26	170	7.47
26S101C	100	85.0-120	1.05	250	6.04
26S151C	150	128-180	0.85	400	4.67
26S221C	220	187-264	0.70	520	3.75
26S331C	330	281-396	0.57	800	2.87
26S471C	470	400-564	0.48	1200	2.33
26S681C	680	578-816	0.40	1780	1.83

ABSOLUTE MAXIMUM RATINGS

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

SOLDERING INFORMATION[2]

Peak reflow temperature	245˚C
Pin finish	Hot dipped tin

RoHS COMPLIANT 2002/95/EC

For full details go to www.murata-ps.com/rohs

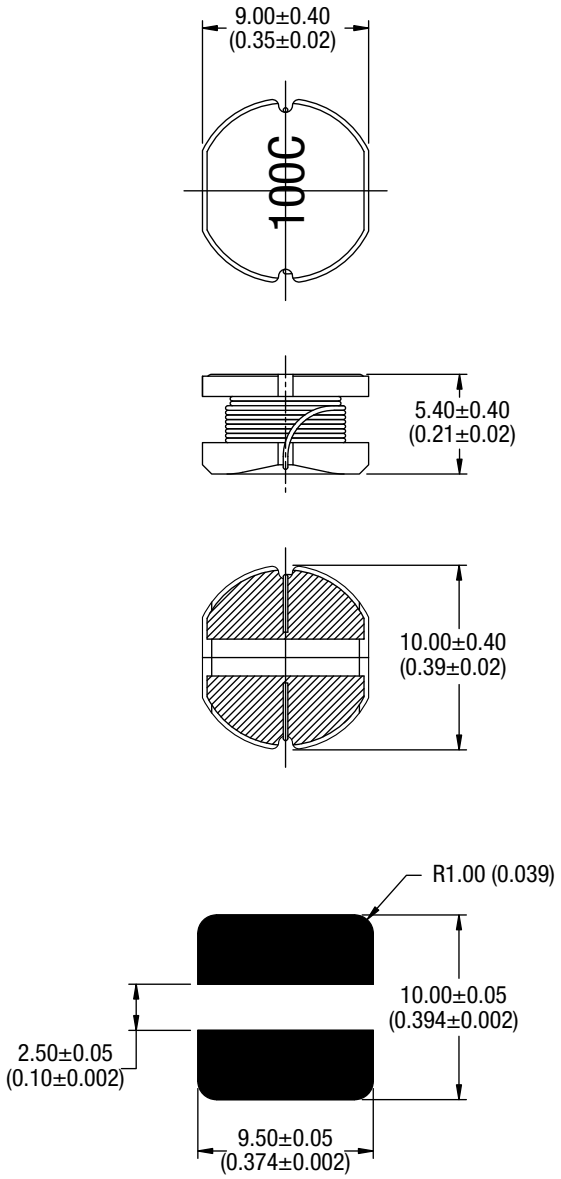
Specifications typical at T_A = 25°C

1 The maximum DC current is the value at which the inductance falls to 80% 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

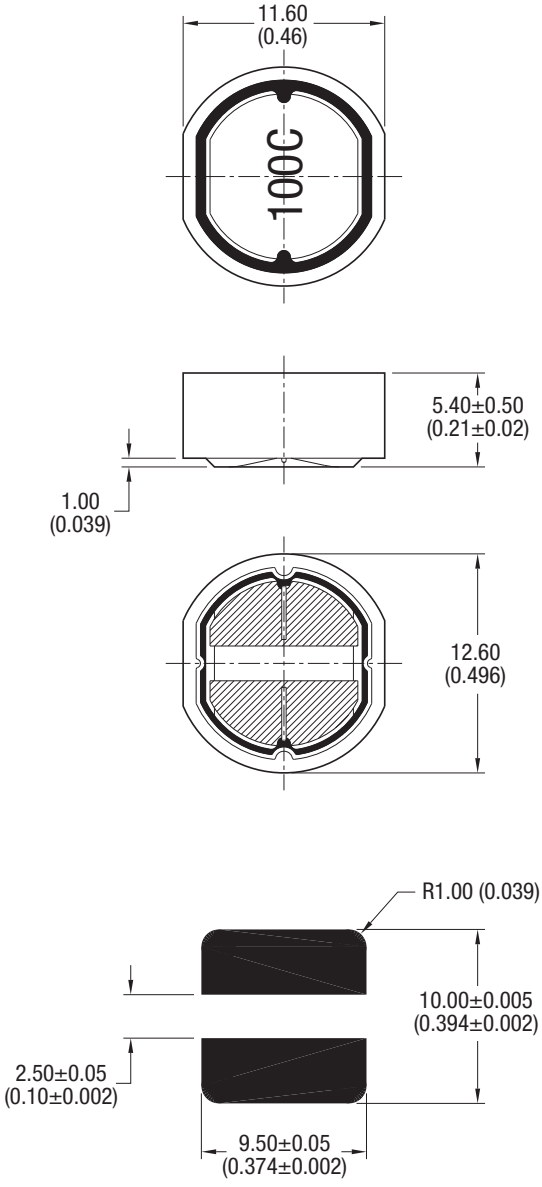
MECHANICAL DIMENSIONS

UNSHIELDED TYPES



Unless otherwise stated all dimensions in mm (inches)
±0.25 (0.01). Package Weight 1.54g Typ.

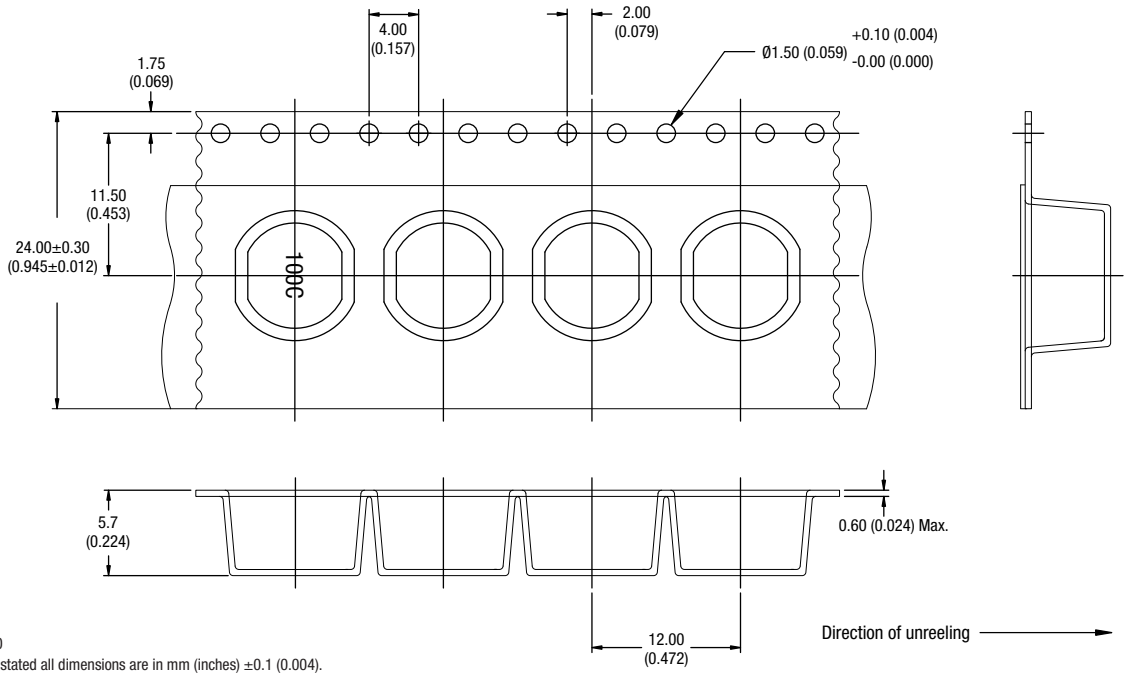
SHIELDED TYPES



Unless otherwise stated all dimensions in mm (inches)
±0.25 (0.01). Package Weight 2.34g Typ.

TAPE & REEL SPECIFICATIONS

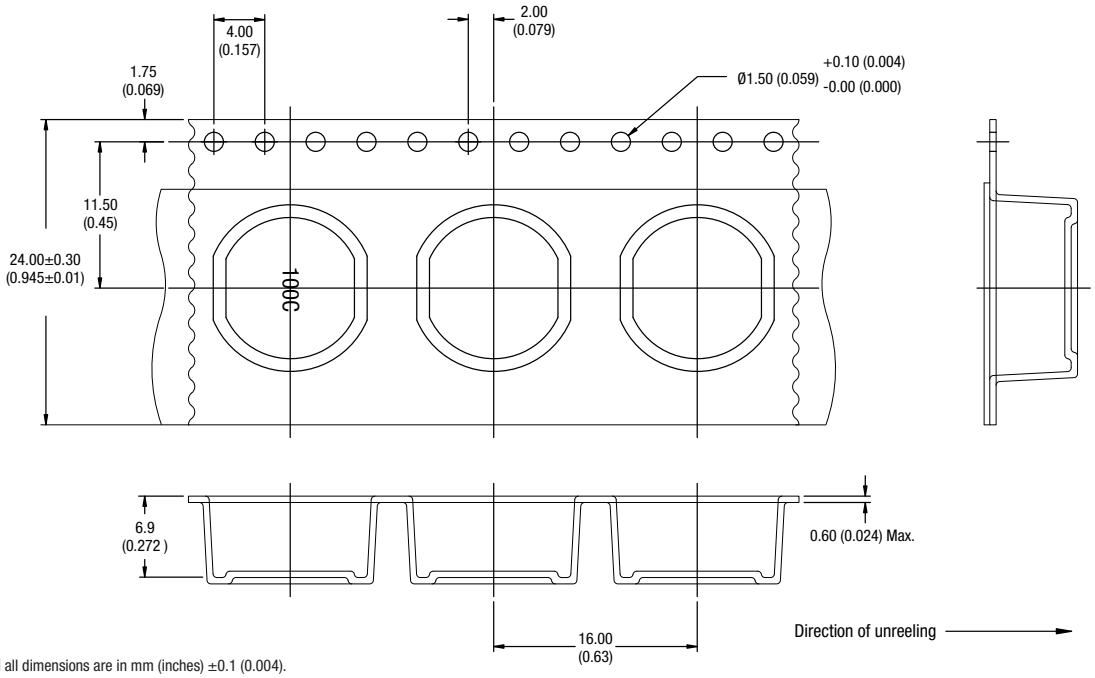
TAPE OUTLINE DIMENSIONS - UNSHIELDED PARTS



Reel quantity: 500

Unless otherwise stated all dimensions are in mm (inches) ±0.1 (0.004).

TAPE OUTLINE DIMENSIONS - SHIELDED PARTS

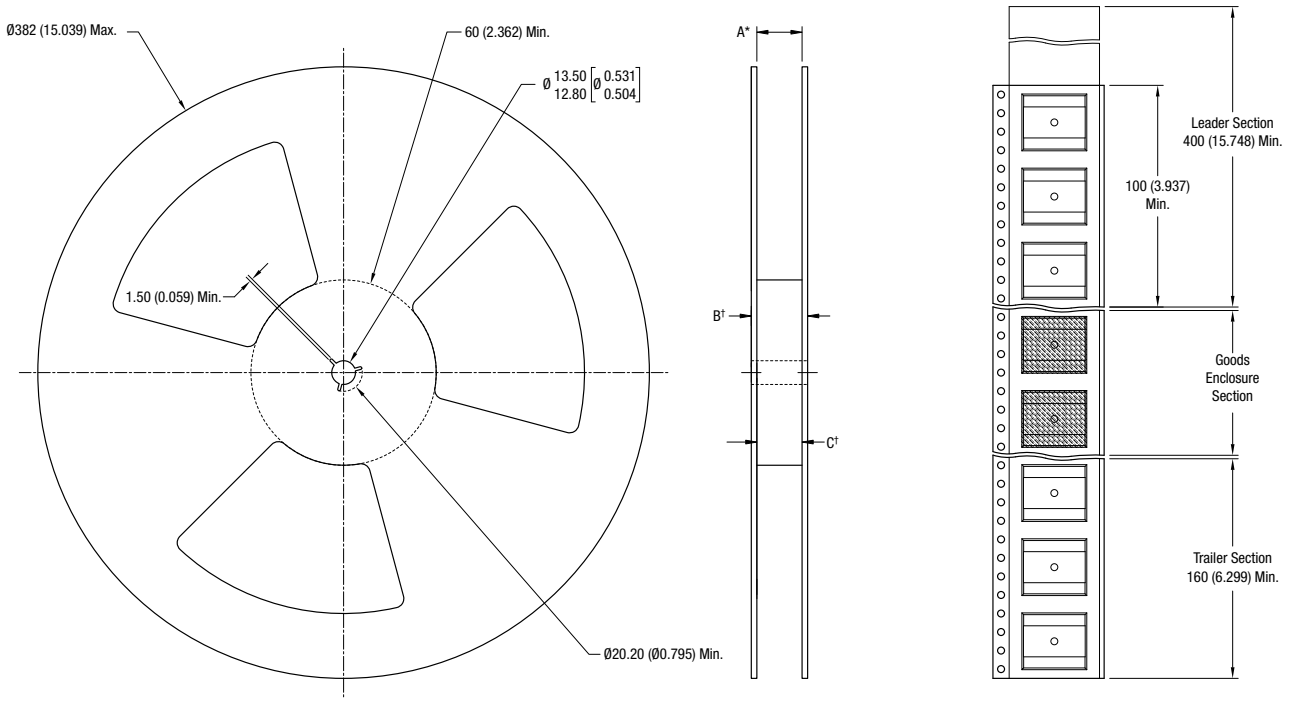


Reel quantity: 500

Unless otherwise stated all dimensions are in mm (inches) ±0.1 (0.004).

TAPE & REEL SPECIFICATIONS

REEL OUTLINE DIMENSIONS



All dimension in mm [inches]
* Includes flange distortion at outer edge
† Measured at hub

	A	B (Max.)	C
Unshielded Types	23.9-27.4 (0.94-1.08)	30.4 (1.197)	24.4-26.4 (0.96-1.04)
Shielded Types	23.9-27.4 (0.94-1.08)	30.4 (1.197)	24.4-26.4 (0.96-1.04)

Murata Power Solutions

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