

### FEATURES

- RoHS compliant
- Up to 4.6A I<sub>DC</sub>
- 3.3μH to 680μH
- Optional integral EMI shield
- Low R<sub>DC</sub>
- 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<br>(1kHz, 100mVAC) | Inductance Range<br>(1kHz, 100mVAC) | DC<br>Current <sup>1</sup> | DC<br>Resistance | SRF  | Recommended<br>Alternative |
|--------------|-------------------------------|-------------------------------------|----------------------------|------------------|------|----------------------------|
|              | Nom.                          | Min. - Max.                         | Max.                       | Max.             | Nom. |                            |
|              | μH                            | μH                                  | A                          | mΩ               | MHz  |                            |
| Discontinued |                               |                                     |                            |                  |      |                            |
| 263R3C       | 3.3                           | 2.13-3.95                           | 4.40                       | 35               | 53.0 | 46332C                     |
| 264R7C       | 4.7                           | 3.41-6.34                           | 3.60                       | 45               | 37.0 | 46472C                     |
| 266R8C       | 6.8                           | 5.00-9.28                           | 3.10                       | 54               | 31.0 | 46682C                     |
| 26100C       | 10                            | 8.00-12.0                           | 2.60                       | 60               | 24.8 | 46103C                     |
| 26120C       | 12                            | 7.95-14.8                           | 2.42                       | 68               | 24.0 | 46103C                     |
| 26150C       | 15                            | 12.0-18.0                           | 2.27                       | 90               | 20.2 | 46153C                     |
| 26180C       | 18                            | 12.9-24.0                           | 2.10                       | 87               | 19.0 | 46153C                     |
| 26220C       | 22                            | 17.6-26.4                           | 1.95                       | 100              | 16.9 | 46223C                     |
| 26330C       | 33                            | 26.4-39.6                           | 1.50                       | 120              | 12.8 | 46333C                     |
| 26470C       | 47                            | 42.3-51.7                           | 1.28                       | 170              | 10.2 | 46473C                     |
| 26680C       | 68                            | 61.2-74.8                           | 1.11                       | 220              | 8.37 | 46683C                     |
| 26101C       | 100                           | 90.0-110                            | 0.97                       | 350              | 6.56 | 46104C                     |
| 26151C       | 150                           | 135-165                             | 0.78                       | 470              | 5.20 | 46154C                     |
| 26221C       | 220                           | 198-242                             | 0.66                       | 730              | 4.00 | 46224C                     |
| 26331C       | 330                           | 297-363                             | 0.52                       | 1150             | 3.14 | 46334C                     |
| 26471C       | 470                           | 423-517                             | 0.42                       | 1480             | 2.54 | 46474C                     |
| 26681C       | 680                           | 612-748                             | 0.28                       | 2250             | 1.97 | 46684C                     |

### SELECTION GUIDE (SHIELDED TYPES)

| Order Code   | Inductance<br>(1kHz, 100mVAC) | Inductance Range<br>(1kHz, 100mVAC) | DC<br>Current <sup>1</sup> | DC<br>Resistance | SRF  | Recommended<br>Alternative |
|--------------|-------------------------------|-------------------------------------|----------------------------|------------------|------|----------------------------|
|              | Nom.                          | Min. - Max.                         | Max.                       | Max.             | Nom. |                            |
|              | μH                            | μH                                  | A                          | mΩ               | MHz  |                            |
| Discontinued |                               |                                     |                            |                  |      |                            |
| 26S3R3C      | 3.3                           | 2.69-5.46                           | 4.60                       | 33               | 46.0 | 46332C                     |
| 26S4R7C      | 4.7                           | 3.58-7.15                           | 3.80                       | 38               | 38.0 | 46472C                     |
| 26S6R8C      | 6.8                           | 4.60-8.97                           | 3.21                       | 43               | 30.0 | 46682C                     |
| 26S100C      | 10                            | 8.00-12.0                           | 2.65                       | 50               | 22.9 | 46103C                     |
| 26S120C      | 12                            | 8.42-15.9                           | 2.55                       | 58               | 21.0 | 46103C                     |
| 26S150C      | 15                            | 12.0-18.0                           | 2.45                       | 60               | 19.7 | 46153C                     |
| 26S180C      | 18                            | 13.4-25.6                           | 2.32                       | 74               | 16.0 | 46153C                     |
| 26S220C      | 22                            | 18.7-26.4                           | 2.20                       | 70               | 15.5 | 48220SC                    |
| 26S330C      | 33                            | 28.1-39.6                           | 1.80                       | 100              | 11.5 | 48330SC                    |
| 26S470C      | 47                            | 40.0-56.4                           | 1.50                       | 120              | 9.44 | 48470SC                    |
| 26S680C      | 68                            | 57.8-81.6                           | 1.26                       | 170              | 7.47 | 48680SC                    |
| 26S101C      | 100                           | 85.0-120                            | 1.05                       | 250              | 6.04 | 48101SC                    |
| 26S151C      | 150                           | 128-180                             | 0.85                       | 400              | 4.67 | 48151SC                    |
| 26S221C      | 220                           | 187-264                             | 0.70                       | 520              | 3.75 | 48221SC                    |
| 26S331C      | 330                           | 281-396                             | 0.57                       | 800              | 2.87 | 48331SC                    |
| 26S471C      | 470                           | 400-564                             | 0.48                       | 1200             | 2.33 | 48471SC                    |
| 26S681C      | 680                           | 578-816                             | 0.40                       | 1780             | 1.83 | 48681SC                    |

### 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 | 245°C          |
| Pin finish              | Hot dipped tin |

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

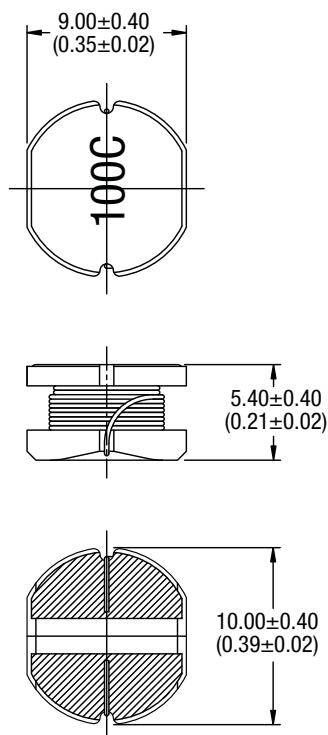
- The maximum DC current is the value at which the inductance falls to 80% of its nominal value or when its temperature rise reaches 40°C, whichever is sooner.
- For further information, please visit [www.murata-ps.com/rohs](http://www.murata-ps.com/rohs)



For full details go to  
[www.murata-ps.com/rohs](http://www.murata-ps.com/rohs)

## MECHANICAL DIMENSIONS

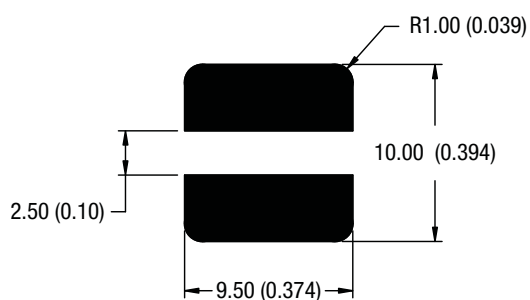
### UNSHIELDED TYPES



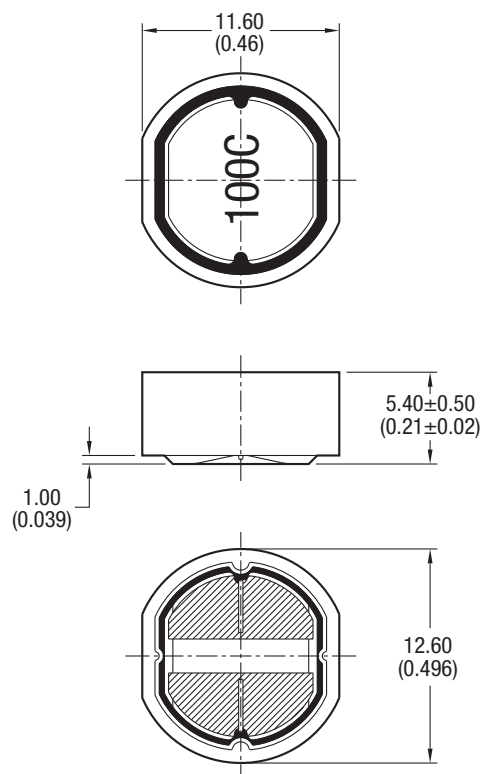
Unless otherwise stated all dimensions in mm (inches)  $\pm 0.25$  (0.01).

Package Weight 1.54g Typ.

### RECOMMENDED FOOTPRINT



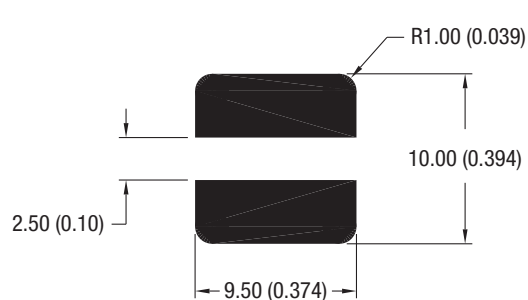
### SHIELDED TYPES



Unless otherwise stated all dimensions in mm (inches)  $\pm 0.25$  (0.01).

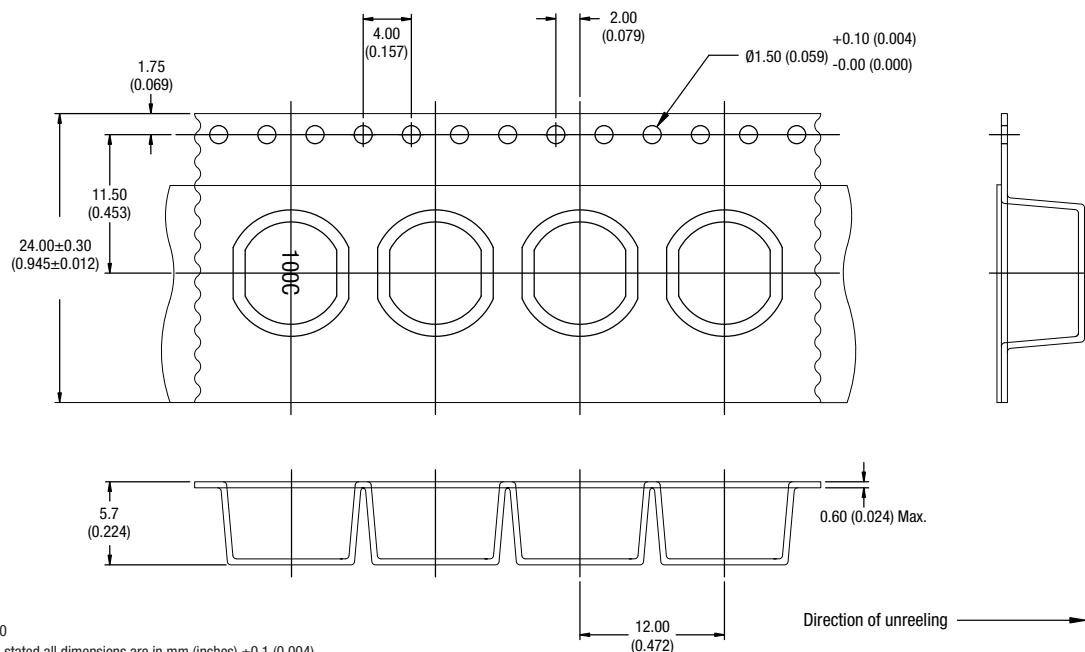
Package Weight 2.34g Typ.

### RECOMMENDED FOOTPRINT

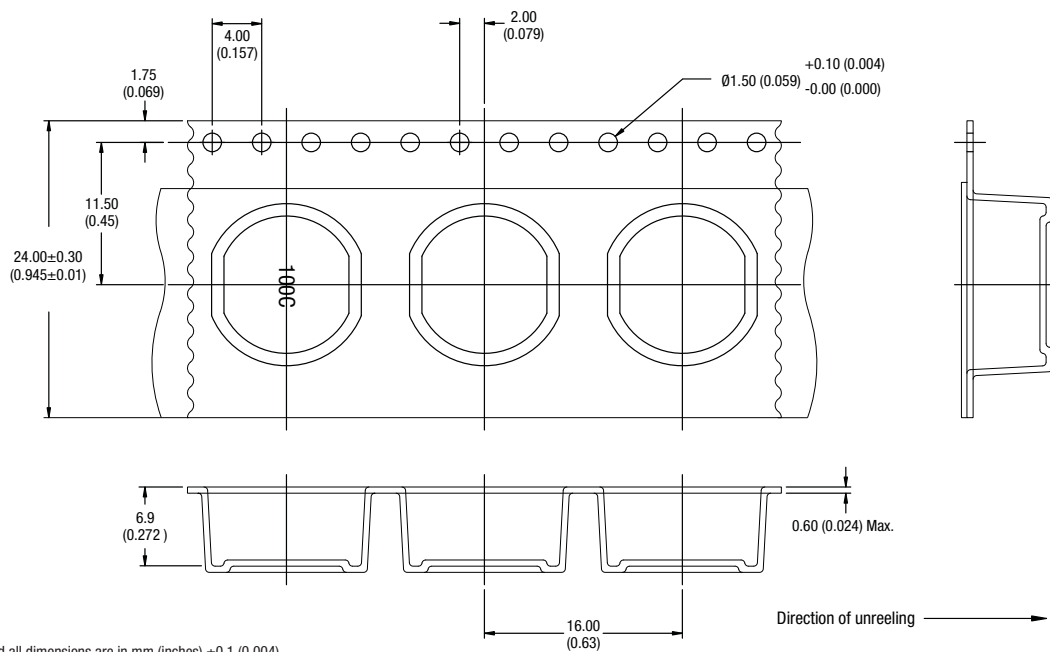


## TAPE & REEL SPECIFICATIONS

### TAPE OUTLINE DIMENSIONS - UNSHIELDED PARTS

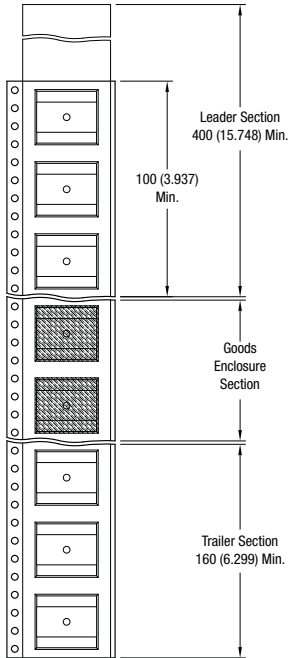
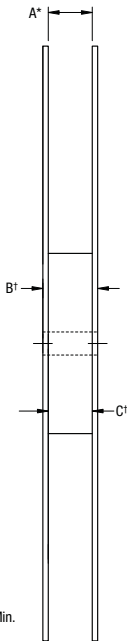
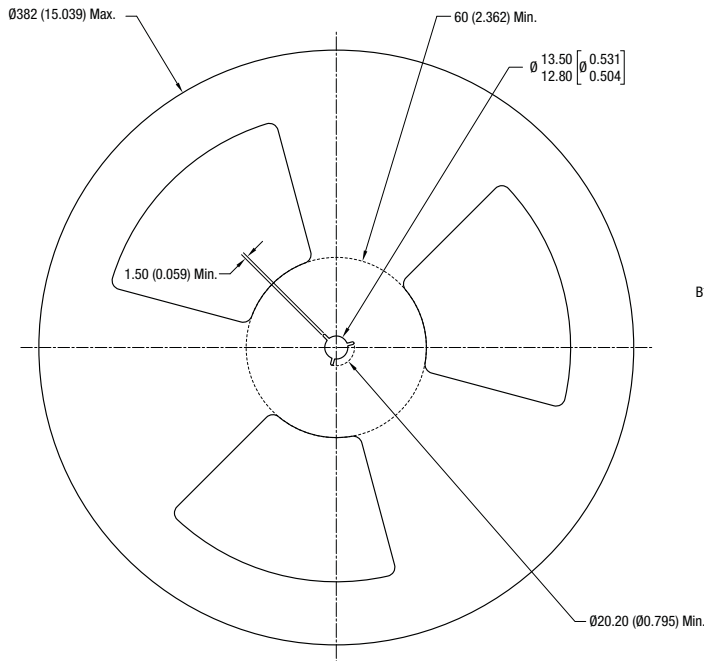


### TAPE OUTLINE DIMENSIONS - SHIELDED PARTS



TAPE & REEL SPECIFICATIONS (Continued)

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) |

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