



FEATURES

- RoHS compliant
- Up to 1.6A I_{DC}
- 4.7μH to 1mH
- Low R_{DC}
- Ultra-low profile
- UL 94V-0 packaging materials
- J-STD-020D reflow
- Custom inductance values available

PRODUCT OVERVIEW

The 2700 series is a range of ultra-low profile, surface-mount power inductors. They are designed for use in power applications with restricted 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.

SELECTION GUIDE

| Order Code | Inductance, L | DC Current ² | DC Resistance |
|---------------|---------------|-------------------------|---------------|
| | ±20% μH | Max. A | Max. Ω |
| 27472C | 4.7 | 1.6 | 0.10 |
| 27682C | 6.8 | 1.4 | 0.13 |
| 27103C | 10 | 1.1 | 0.15 |
| 27153C | 15 | 0.9 | 0.23 |
| 27223C | 22 | 0.75 | 0.30 |
| 27333C | 33 | 0.6 | 0.45 |
| 27473C | 47 | 0.5 | 0.70 |
| 27683C | 68 | 0.42 | 0.90 |
| 27104C | 100 | 0.35 | 1.30 |
| 27154C | 150 | 0.28 | 2.00 |
| 27224C | 220 | 0.24 | 3.00 |
| 27334C | 330 | 0.19 | 4.50 |
| 27474C | 470 | 0.16 | 6.50 |
| 27684C | 680 | 0.14 | 8.50 |
| 27105C | 1000 | 0.11 | 14.0 |

ABSOLUTE MAXIMUM RATINGS

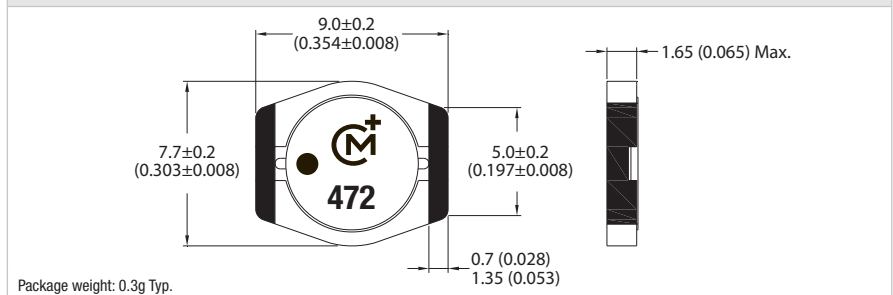
| | |
|--|----------------|
| Operating temperature range ³ | -40°C to 125°C |
| Storage temperature range | -40°C to 150°C |

SOLDERING INFORMATION¹

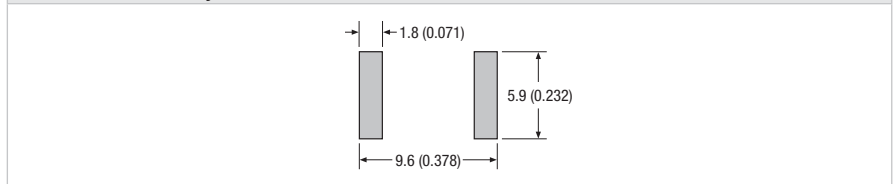
| | |
|---|-------|
| Peak reflow solder temperature | 260°C |
| Pin finish | Gold |
| Moisture sensitivity level ⁴ | 1 |

PACKAGE SPECIFICATIONS

Mechanical Dimensions



Recommended Pad Layout



All dimensions in mm (inches)

Specifications typical at T_A = 25°C

1 For further information, please visit www.murata-ps.com/rohs

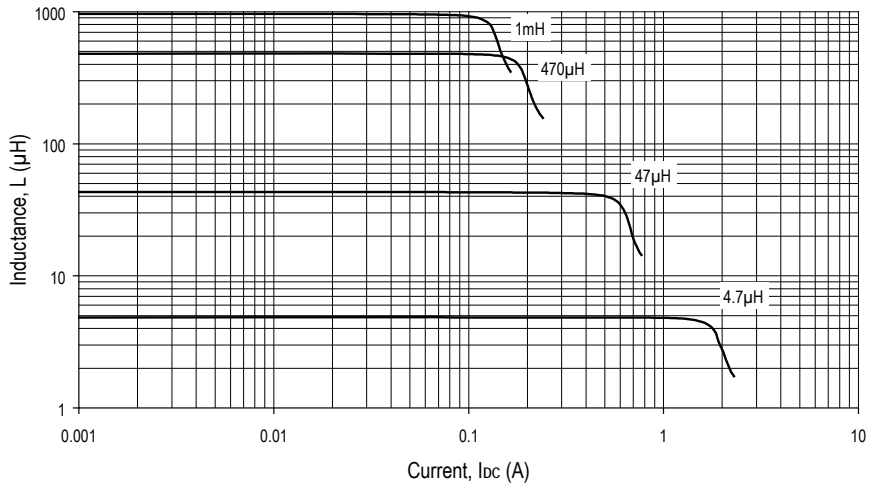
2 The maximum DC current is the value at which the inductance falls to 75% of its nominal value or when its temperature rise reaches 40°C, whichever is sooner.

3 Including self heating of the device.

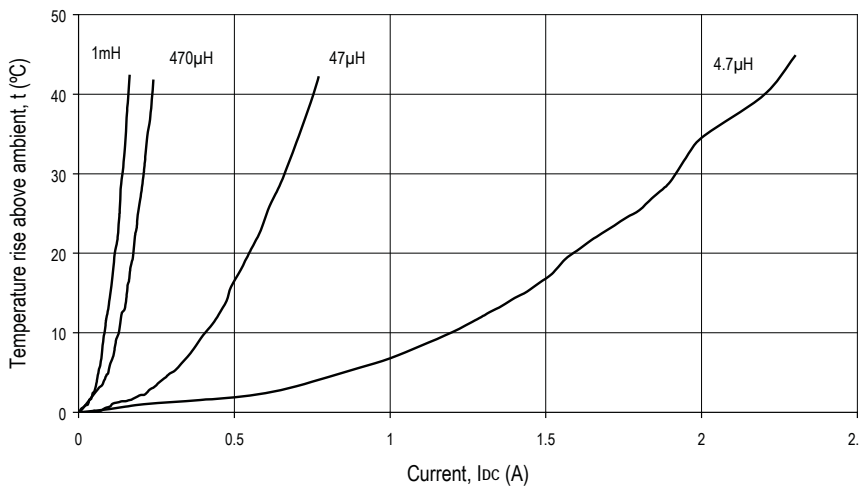
4 Representative samples of the product were subjected to the conditioning described in IPC/JEDEC J-STD-020D and passed electrical testing, package coplanarity and visual inspection which revealed no external cracks or changes in package body flatness.



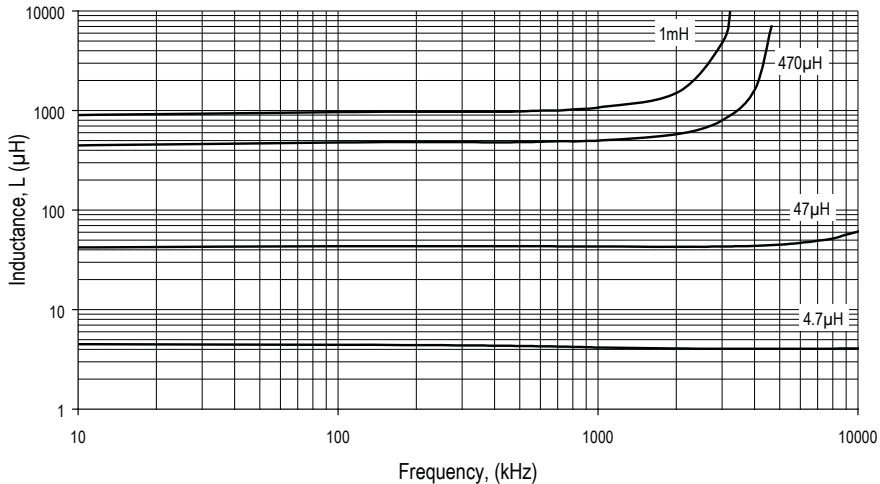
INDUCTANCE Vs CURRENT



TEMPERATURE Vs CURRENT

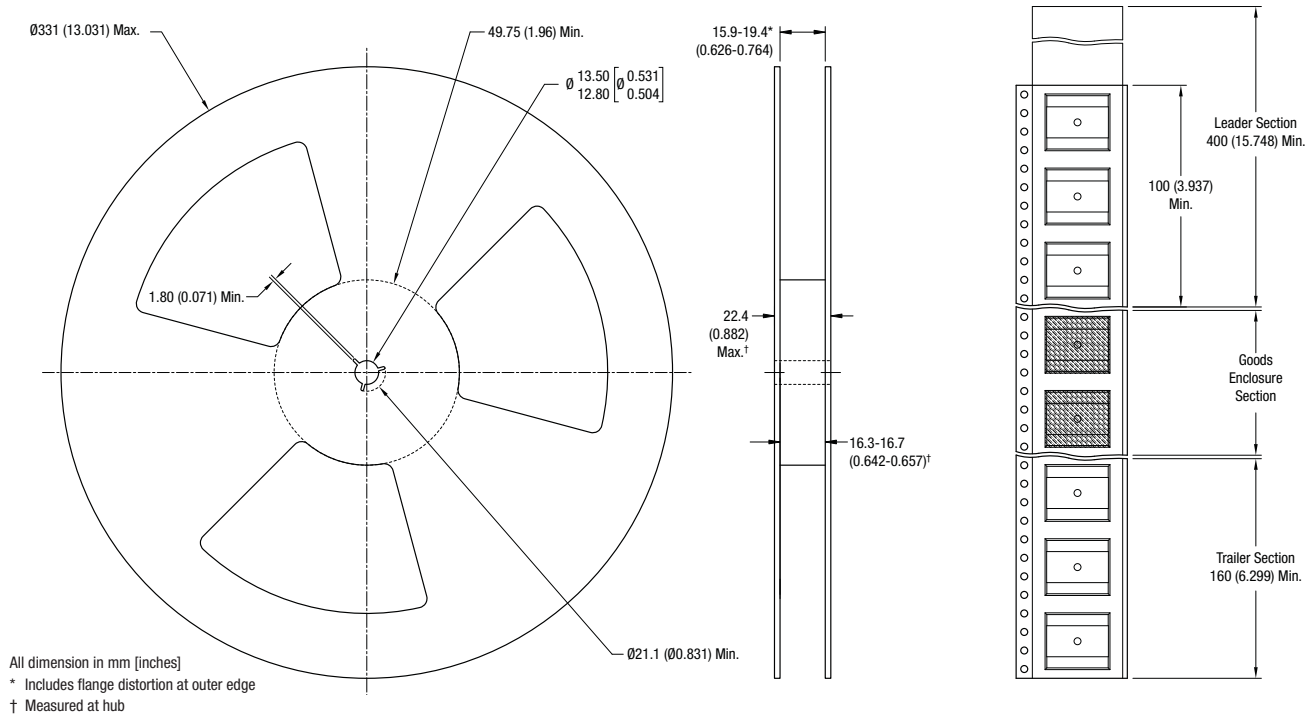


INDUCTANCE Vs FREQUENCY

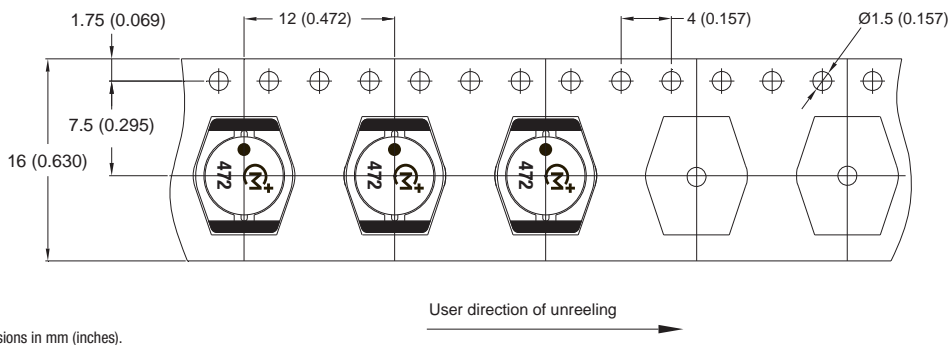


PACKAGE SPECIFICATIONS

Mechanical Dimensions



Tape Outline Dimensions



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ISO 9001 and 14001 REGISTERED

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