



## FEATURES

- RoHS compliant
- Up to 1.6A I<sub>DC</sub>
- 4.7μH to 1mH
- Low R<sub>DC</sub>
- 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 <sup>2</sup>	DC Resistance
	±20% μH	Max. A	Max. Ω
<b>27472C</b>	4.7	1.6	0.10
<b>27682C</b>	6.8	1.4	0.13
<b>27103C</b>	10	1.1	0.15
<b>27153C</b>	15	0.9	0.23
<b>27223C</b>	22	0.75	0.30
<b>27333C</b>	33	0.6	0.45
<b>27473C</b>	47	0.5	0.70
<b>27683C</b>	68	0.42	0.90
<b>27104C</b>	100	0.35	1.30
<b>27154C</b>	150	0.28	2.00
<b>27224C</b>	220	0.24	3.00
<b>27334C</b>	330	0.19	4.50
<b>27474C</b>	470	0.16	6.50
<b>27684C</b>	680	0.14	8.50
<b>27105C</b>	1000	0.11	14.0

## ABSOLUTE MAXIMUM RATINGS

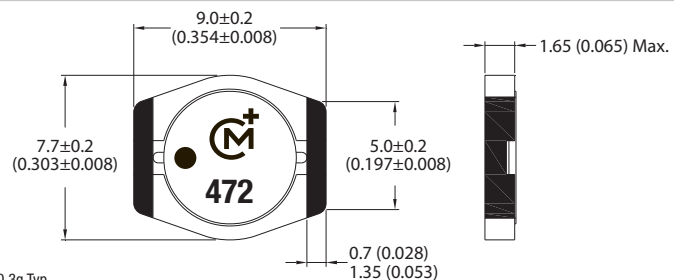
Operating temperature range <sup>3</sup>	-40°C to 125°C
Storage temperature range	-40°C to 150°C

## SOLDERING INFORMATION<sup>1</sup>

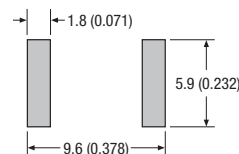
Peak reflow solder temperature	260°C
Pin finish	Gold
Moisture sensitivity level <sup>4</sup>	1

## PACKAGE SPECIFICATIONS

### Mechanical Dimensions



### Recommended Pad Layout



All dimensions in mm (inches)

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

1 For further information, please visit [www.murata-ps.com/rohs](http://www.murata-ps.com/rohs)

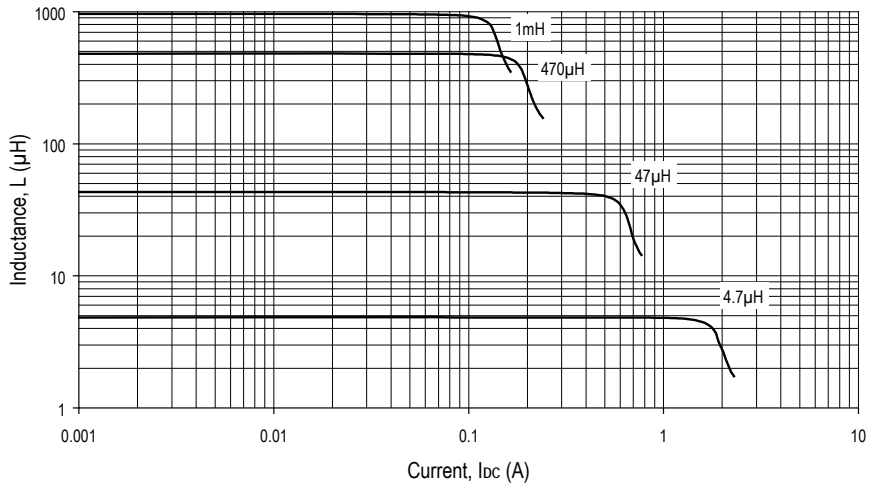
2 The maximum DC current is the value at which the inductance falls to 75% of its nominal value or when its temperature rise reaches 40°C, whichever is sooner.

3 Including self heating of the device.

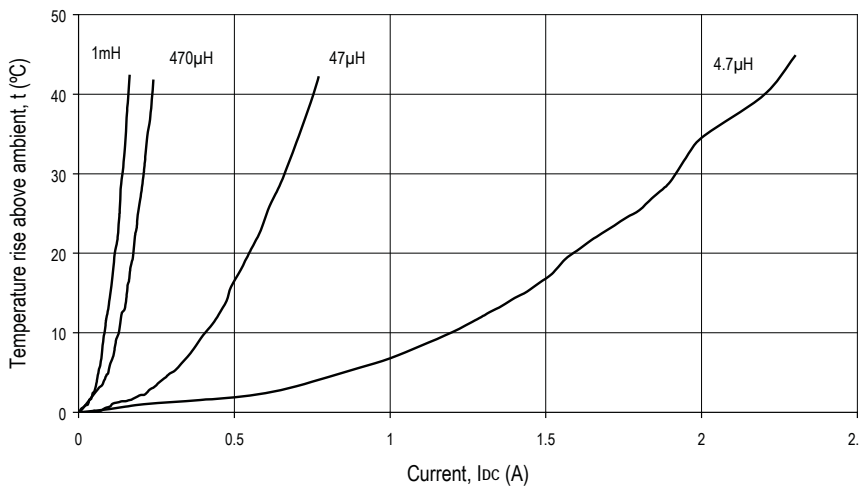
4 Representative samples of the product were subjected to the conditioning described in IPC/JEDEC J-STD-020D and passed electrical testing, package coplanarity and visual inspection which revealed no external cracks or changes in package body flatness.



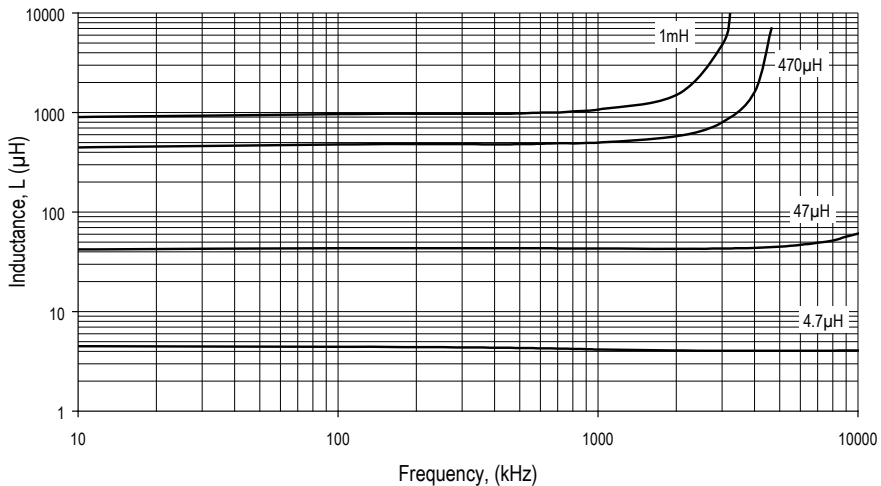
**INDUCTANCE Vs CURRENT**



**TEMPERATURE Vs CURRENT**

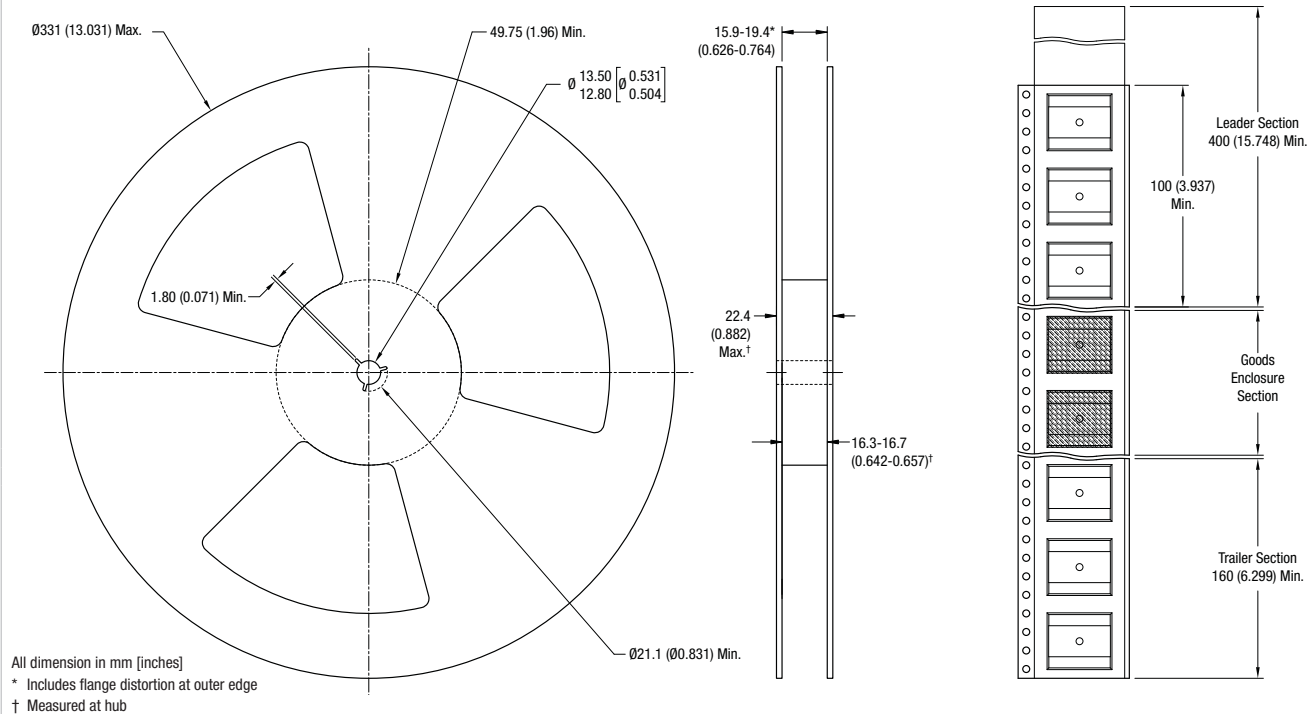


**INDUCTANCE Vs FREQUENCY**

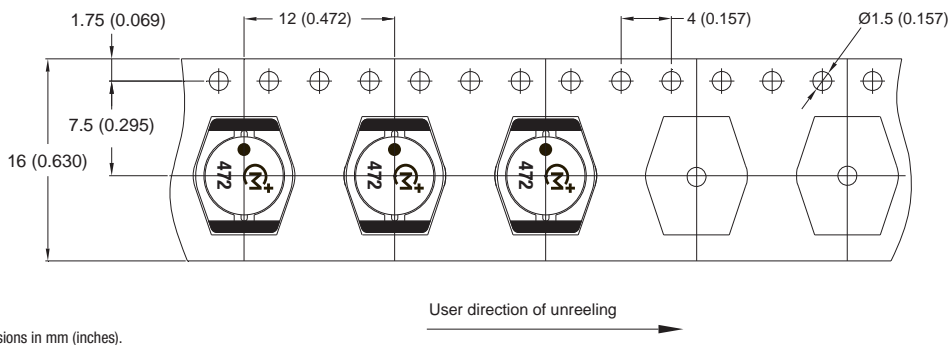


**PACKAGE SPECIFICATIONS**

**Mechanical Dimensions**



**Tape Outline Dimensions**



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