



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	Recommended Alternative
	±20% μH	Max. A	Max. Ω	
To be discontinued				
27472C	4.7	1.6	0.10	Contact Murata
27682C	6.8	1.4	0.13	Contact Murata
27103C	10	1.1	0.15	Contact Murata
27153C	15	0.9	0.23	Contact Murata
27223C	22	0.75	0.30	Contact Murata
27333C	33	0.6	0.45	Contact Murata
27473C	47	0.5	0.70	Contact Murata
27683C	68	0.42	0.90	Contact Murata
27104C	100	0.35	1.30	Contact Murata
27154C	150	0.28	2.00	Contact Murata
27224C	220	0.24	3.00	Contact Murata
27334C	330	0.19	4.50	Contact Murata
27474C	470	0.16	6.50	Contact Murata
27684C	680	0.14	8.50	Contact Murata
27105C	1000	0.11	14.0	Contact Murata

ABSOLUTE MAXIMUM RATINGS

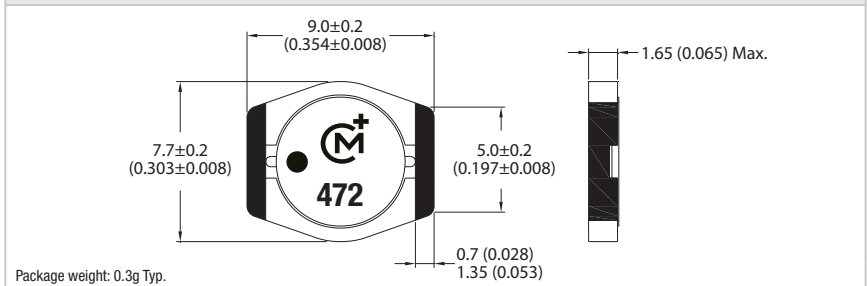
Operating temperature range ³	-40°C to 125°C
Storage temperature range	-40°C to 150°C

SOLDERING INFORMATION¹

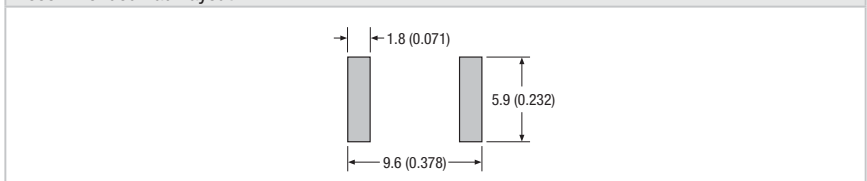
Peak reflow solder temperature	260°C
Pin finish	Gold
Moisture sensitivity level ⁴	1

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.

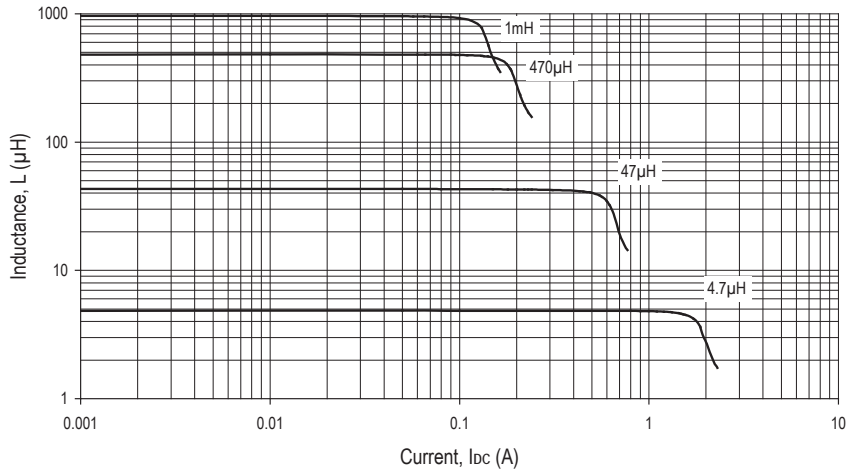
3 Including self heating of the device.

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.

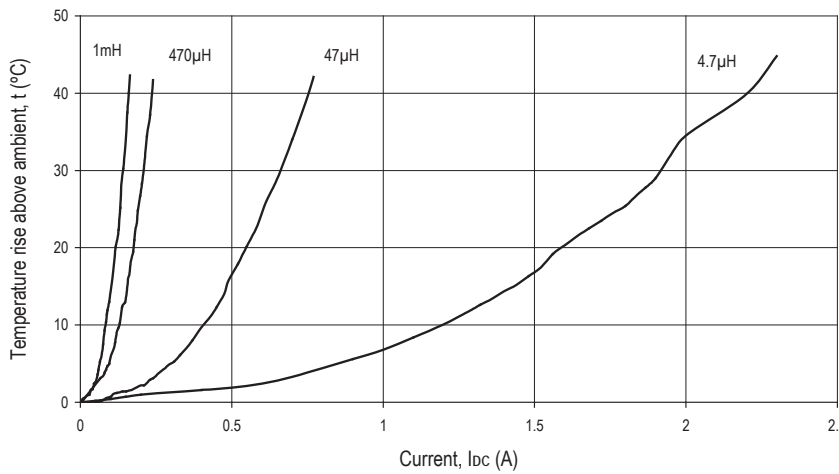


For full details go to
www.murata-ps.com/rohs

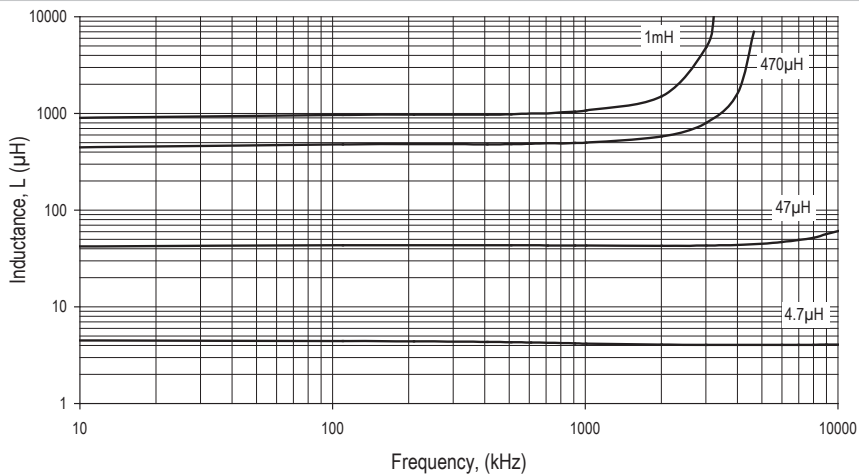
INDUCTANCE Vs CURRENT



TEMPERATURE Vs CURRENT

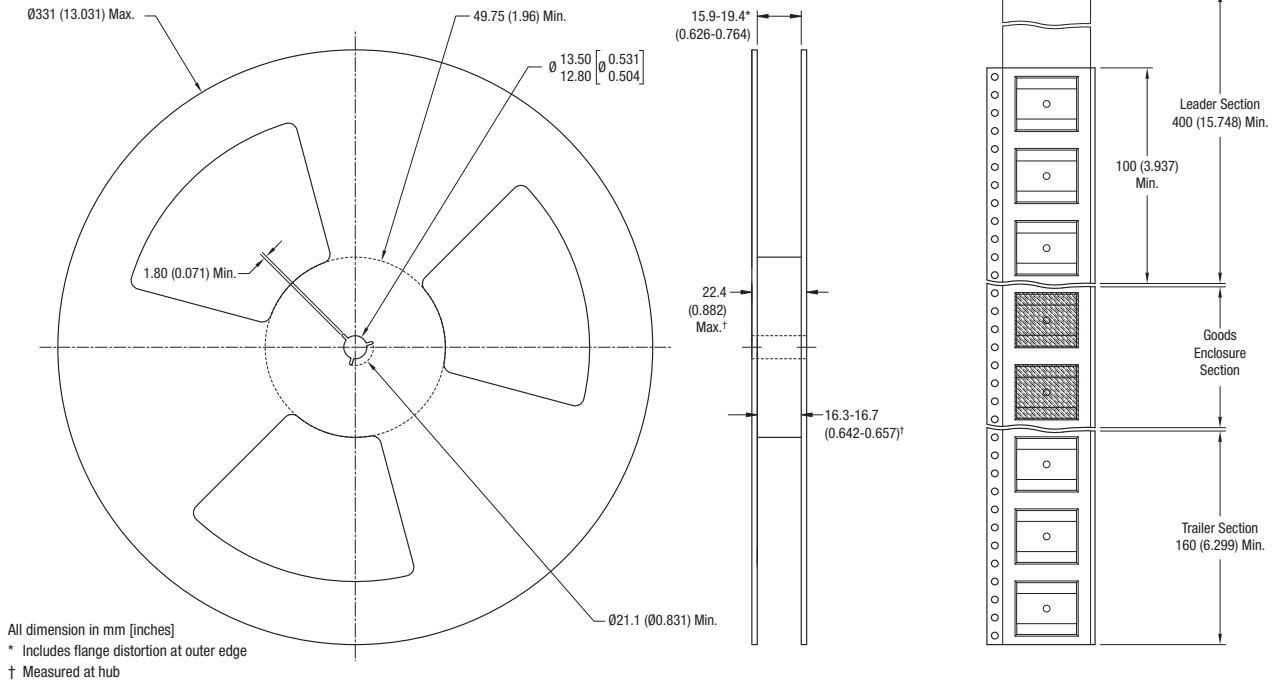


INDUCTANCE Vs FREQUENCY

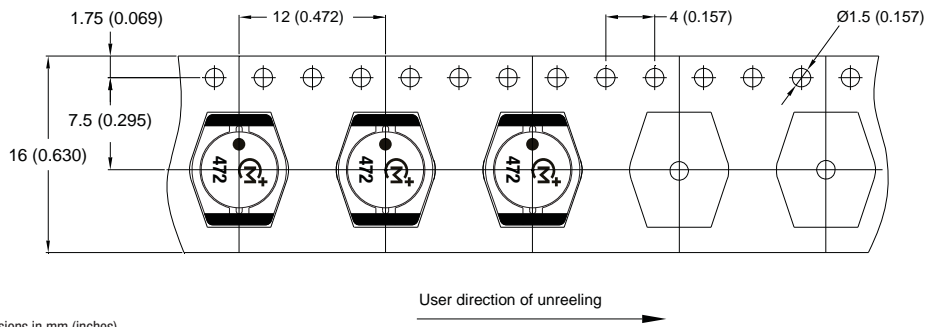


PACKAGE SPECIFICATIONS

Mechanical Dimensions



Tape Outline Dimensions



Reel quantity: 2500
Unless otherwise stated, all dimensions in mm (inches).

DISCLAIMER

Unless otherwise stated in the datasheet, all products are designed for standard commercial and industrial applications and NOT for safety-critical and/or life-critical applications.

Particularly for safety-critical and/or life-critical applications, i.e. applications that may directly endanger or cause the loss of life, inflict bodily harm and/or loss or severe damage to equipment/property, and severely harm the environment, a prior explicit written approval from Murata is strictly required. Any use of Murata standard products for any safety-critical, life-critical or any related applications without any prior explicit written approval from Murata shall be deemed unauthorised use.

These applications include but are not limited to:

- Aircraft equipment
- Aerospace equipment
- Undersea equipment
- Power plant control equipment
- Medical equipment
- Transportation equipment (automobiles, trains, ships, etc.)
- Traffic signal equipment
- Disaster prevention / crime prevention equipment
- Data Processing equipment

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Refer to: <https://www.murata.com/en-eu/products/power/requirements>

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