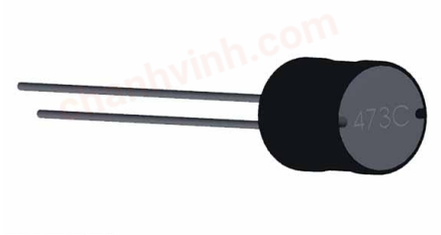
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Murata Power Solutions

# 1300R Series

Radial Lead Inductors




## FEATURES

- RoHS compliant
- Radial format
- Up to 6.3A $I_{DC}$
- 1.5µH to 68mH
- Low DC resistance
- UL VW-1 rated sleeving
- Backward compatible with Sn/Pb soldering systems
- Custom parts available

## DESCRIPTION

The 1300R Series is a general purpose range of inductors suitable for low to medium current applications such as power supply and other general purpose filtering designs.

## SELECTION GUIDE

| Order Code | Inductance (1kHz, 0.1$V_{AC}$) | DC Current[1] | DC Resistance |
|---|---|---|---|
| | ±10% | Max. | Max. |
| | µH | A | Ω |
| **13R152C** | 1.5 ±20% | 6.3 | 0.008 |
| **13R222C** | 2.2 ±20% | 5.3 | 0.010 |
| **13R332C** | 3.3 ±20% | 4.8 | 0.013 |
| **13R472C** | 4.7 ±20% | 4.3 | 0.017 |
| **13R682C** | 6.8 ±20% | 3.5 | 0.023 |
| **13R103C** | 10 | 3.0 | 0.031 |
| **13R153C** | 15 | 2.5 | 0.042 |
| **13R223C** | 22 | 2.0 | 0.070 |
| **13R333C** | 33 | 1.8 | 0.092 |
| **13R473C** | 47 | 1.5 | 0.110 |
| **13R683C** | 68 | 1.3 | 0.150 |
| **13R104C** | 100 | 1.0 | 0.240 |
| **13R154C** | 150 | 0.82 | 0.330 |
| **13R224C** | 220 | 0.70 | 0.470 |
| **13R334C** | 330 | 0.58 | 0.640 |
| **13R474C** | 470 | 0.45 | 1.05 |
| **13R684C** | 680 | 0.42 | 1.50 |
| **13R105C** | 1.0mH | 0.33 | 2.10 |
| **13R155C** | 1.5mH | 0.28 | 3.10 |
| **13R225C** | 2.2mH | 0.24 | 4.50 |
| **13R335C** | 3.3mH | 0.19 | 7.0 |
| **13R475C** | 4.7mH | 0.16 | 9.3 |
| **13R685C** | 6.8mH | 0.13 | 13.5 |
| **13R106C** | 10mH | 0.085 | 23.8 |
| **13R156C** | 15mH | 0.080 | 31.0 |
| **13R226C** | 22mH | 0.070 | 48.0 |
| **13R336C** | 33mH | 0.060 | 68.0 |
| **13R476C** | 47mH | 0.045 | 120.0 |
| **13R686C** | 68mH | 0.040 | 152.0 |

## 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 wave solder temperature | 260°C for 10 seconds |
| Pin finish | Bright tin |

RoHS COMPLIANT

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

All specifications typical at $T_A$=25°C

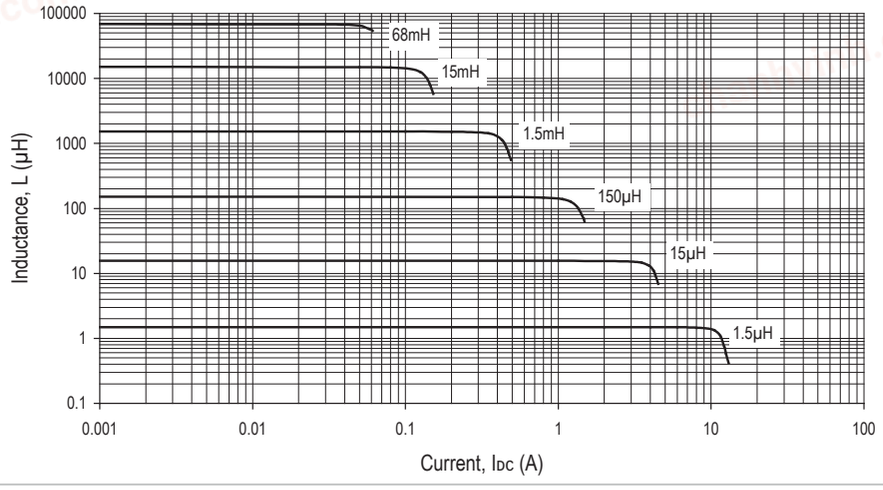
1 Maximum DC current occurs when either the inductance falls to 90% of its nominal value or when its temperature rise reaches 30°C, whichever is sooner.

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

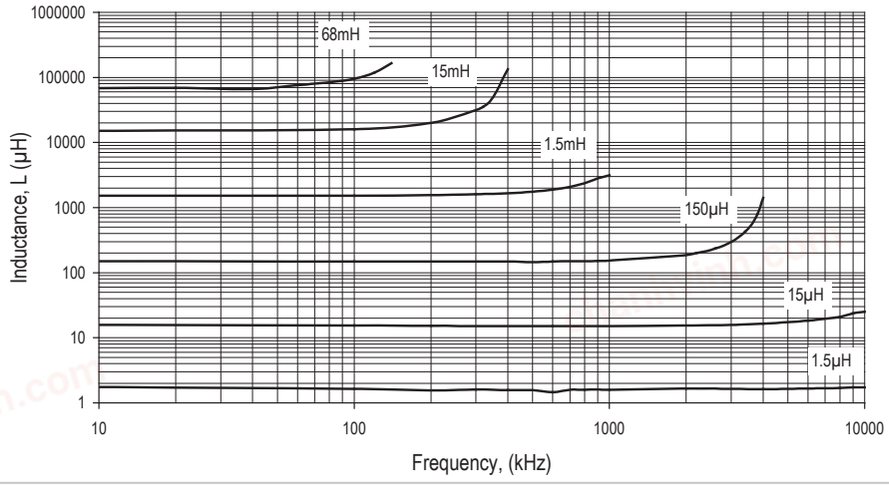
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## INDUCTANCE Vs CURRENT



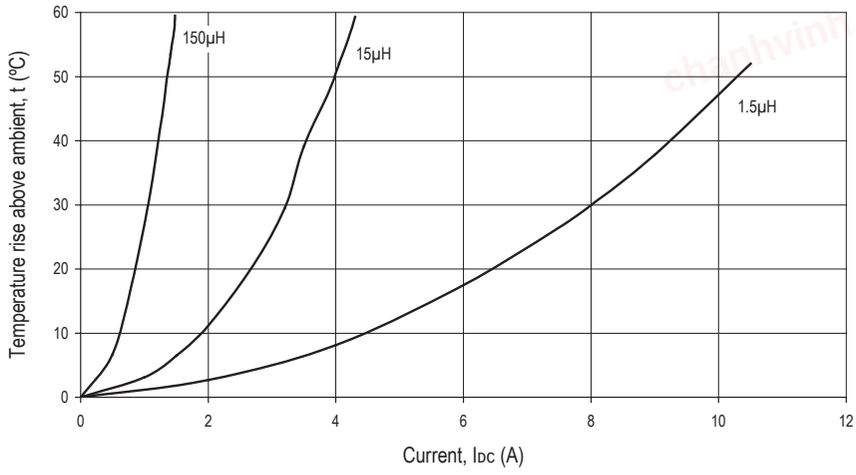

## INDUCTANCE Vs FREQUENCY

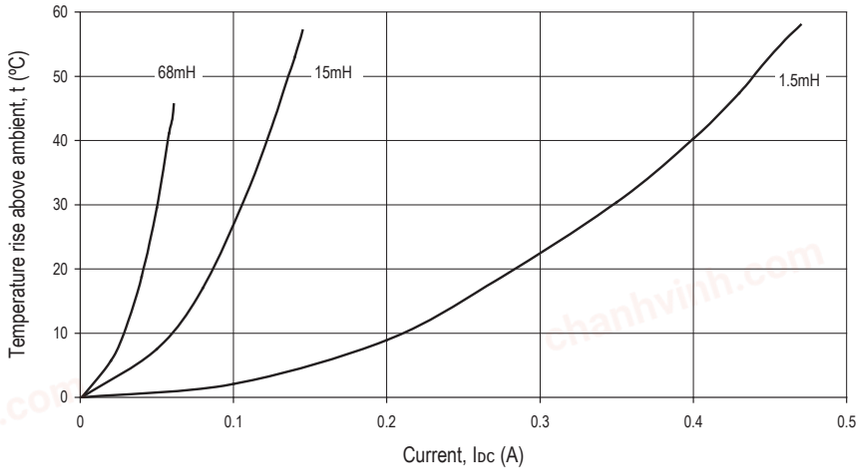


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## TEMPERATURE Vs CURRENT



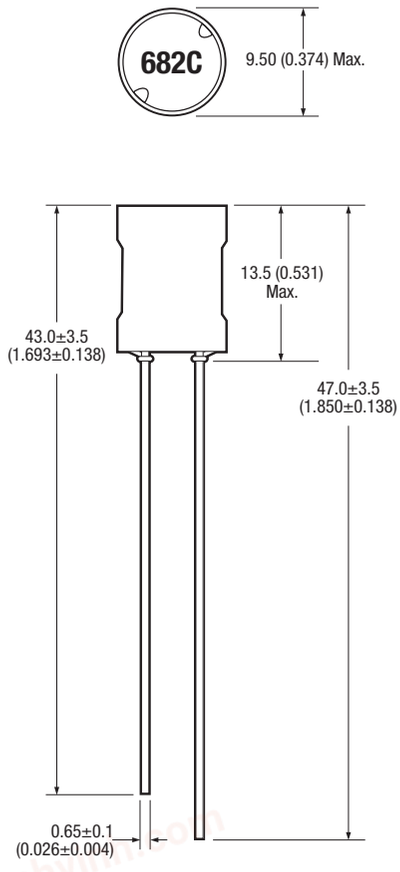



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## PACKAGE SPECIFICATIONS

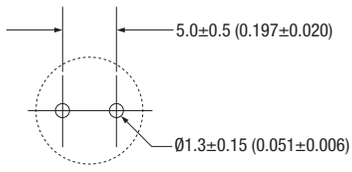
### MECHANICAL DIMENSIONS




All dimensions in mm (inches).

Package weight 2.4g Typ.

### RECOMMENDED FOOTPRINT DETAILS




All dimensions in mm (inches)

### PACKAGING DETAILS

Supplied in cartons (200 pieces per carton)

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- Data Processing equipment

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