Murata Power Solutions

1100R Series

Radial Lead Inductors



FEATURES

- RoHS compliant
- Radial format
- Up to 3.0A I_{DC}
- 1.0 to 470µH
- Low DC resistance
- Compact size
- Supplied in bags of 200
- UL VW-1 rated sleeving
- Backward compatible with Sn/Pb soldering systems
- Custom products available

DESCRIPTION

The 1100R Series is a general purpose range of inductors suitable for low to medium current applications. Their small footprint makes them ideal for high density applications where a chip inductor will not cope with the power requirement.

SELECTION GUIDE

Order Code	Inductance (1kHz, 0.1V_{AC})	DC Current[1]	DC Resistance
	±10%	Max.	Max.
	µH	A	Ω
11R102C	1.0 ±20%	3.00	0.02
11R152C	1.5 ±20%	2.40	0.03
11R222C	2.2 ±20%	1.90	0.05
11R332C	3.3 ±20%	1.50	0.07
11R472C	4.7 ±20%	1.30	0.09
11R682C	6.8 ±20%	1.10	0.10
11R103C	10	0.95	0.14
11R153C	15	0.80	0.19
11R223C	22	0.65	0.27
11R333C	33	0.55	0.42
11R473C	47	0.50	0.54
11R683C	68	0.40	0.85
11R104C	100	0.35	1.10
11R154C	150	0.30	1.65
11R224C	220	0.24	2.40
11R334C	330	0.19	3.60
11R474C	470	0.14	6.40

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

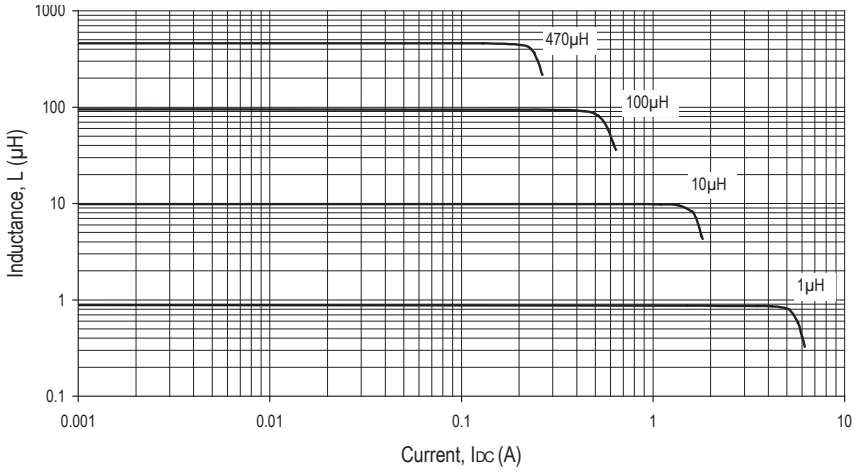
RoHS COMPLIANT

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

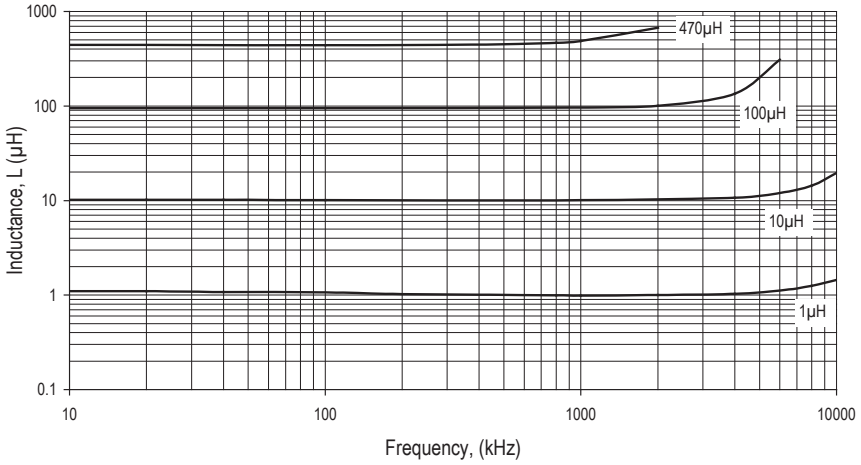
All specifications typical at T_A=25°C

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

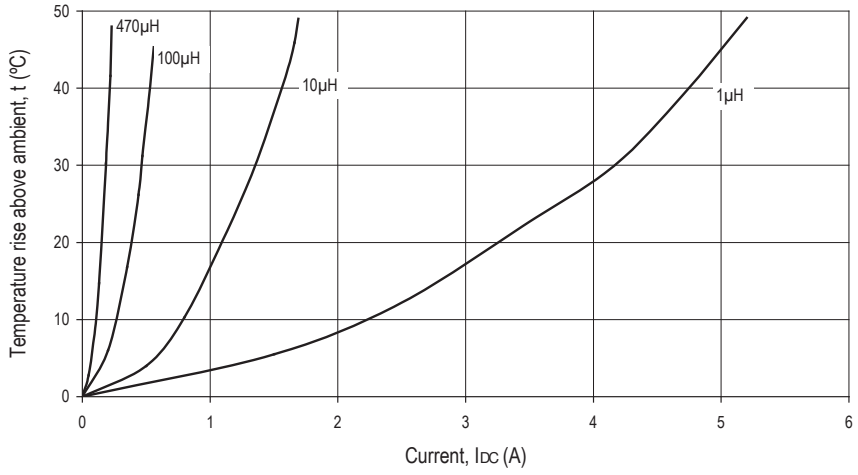
INDUCTANCE Vs CURRENT



INDUCTANCE Vs FREQUENCY

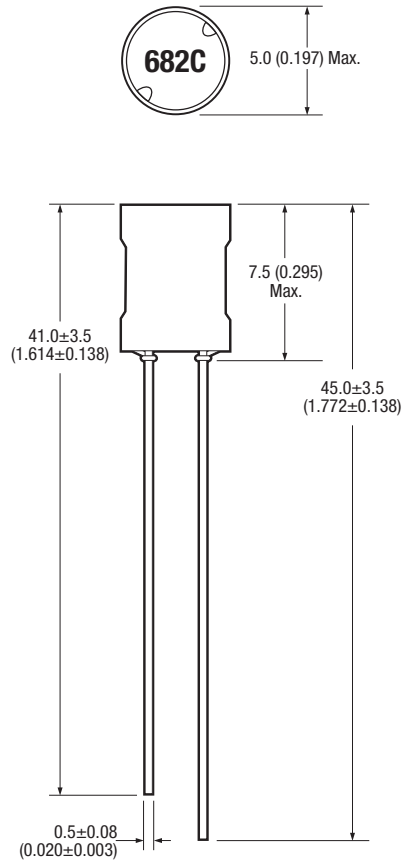


TEMPERATURE Vs CURRENT



PACKAGE SPECIFICATIONS

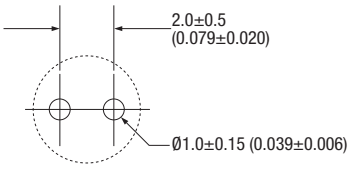
MECHANICAL DIMENSIONS



All dimensions in mm (inches).

Package weight 0.5g Typ.

RECOMMENDED FOOTPRINT DETAILS



All dimensions in mm (inches)

PACKAGING DETAILS

Supplied in bags (200 pieces per bag)

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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