Murata Power Solutions

1900R Series

Radial Lead Inductors



FEATURES

- RoHS compliant
- Radial format
- Up to 7.8A I_{DC}
- 4.7µH to 100mH
- Low DC resistance
- PCB mounting
- Fully tinned leads

DESCRIPTION

The 1900R 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, 0.1V_{AC})	DC Current[1]	DC Resistance	Mechanical dimensions	Weight (g)
	±10%	Max.	Max.		Typ.
	µH	A	Ω		
19R472C	4.7 ±20%	7.8	0.008	A	6
19R682C	6.8 ±20%	6.7	0.011	A	6.1
19R103C	10	6.0	0.017	A	6.2
19R153C	15	4.8	0.022	A	6.4
19R223C	22	4.0	0.026	A	6.4
19R333C	33	3.7	0.032	A	6.5
19R473C	47	3.4	0.038	A	6.5
19R683C	68	2.9	0.055	A	6.5
19R104C	100	2.2	0.090	A	6.7
19R154C	150	1.9	0.129	A	6.8
19R224C	220	1.6	0.162	A	7
19R334C	330	1.34	0.240	A	7.2
19R474C	470	1.09	0.380	B	7.7
19R684C	680	0.91	0.548	B	7.7
19R105C	1.0mH	0.73	0.844	B	7
19R155C	1.5mH	0.63	1.2	B	7.2
19R225C	2.2mH	0.50	2.0	B	7.4
19R335C	3.3mH	0.42	2.5	B	7.5
19R475C	4.7mH	0.35	3.5	B	7.5
19R685C	6.8mH	0.29	5.7	B	7.3
19R106C	10mH	0.23	7.3	B	7.3
19R156C	15mH	0.19	12	B	7.3
19R226C	22mH	0.15	22	B	7.4
19R336C	33mH	0.13	26	B	7.5
19R476C	47mH	0.11	36	B	7.4
19R686C	68mH	0.09	57	B	7.2
19R107C	100mH	0.07	90	B	6.7

ABSOLUTE MAXIMUM RATINGS

Operating free air temperature range	-40°C to +95°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

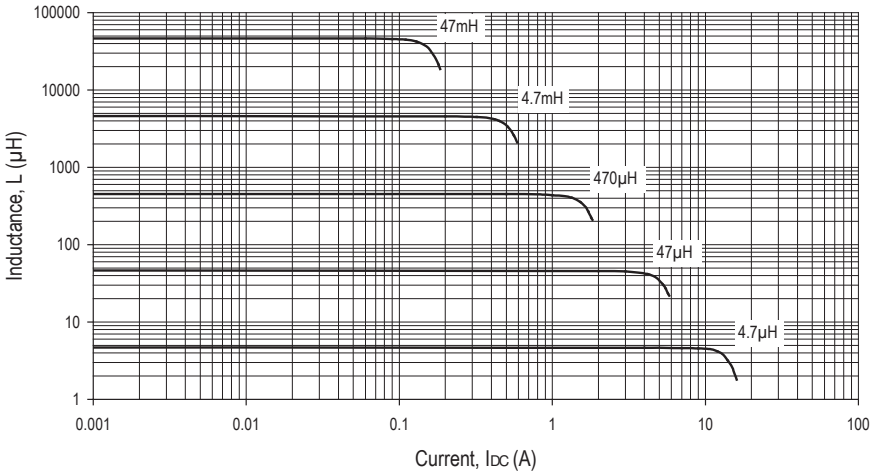
For full details go to https://www.murata.com/en-us/products/power/rohs

All specifications typical at T_A=25°C

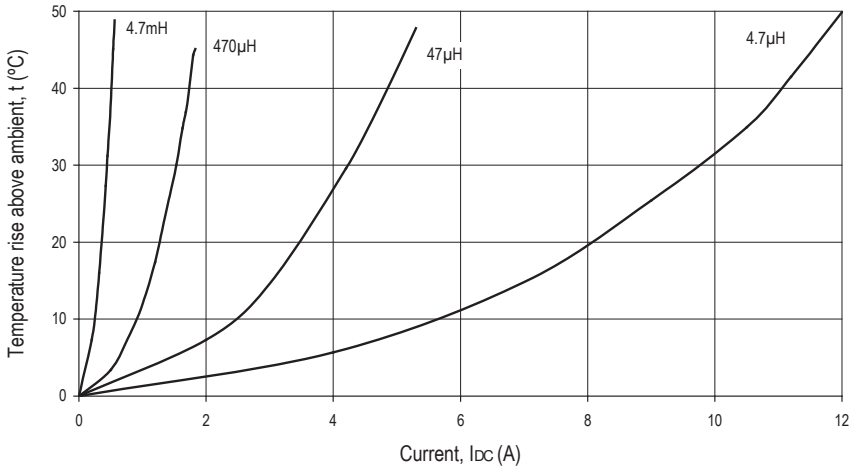
1 Maximum DC current occurs when either the inductance falls to 90% of its nominal value or when its temperature rise reaches 30°C, whichever is sooner.

2 For further information, please visit https://www.murata.com/en-us/products/power/rohs

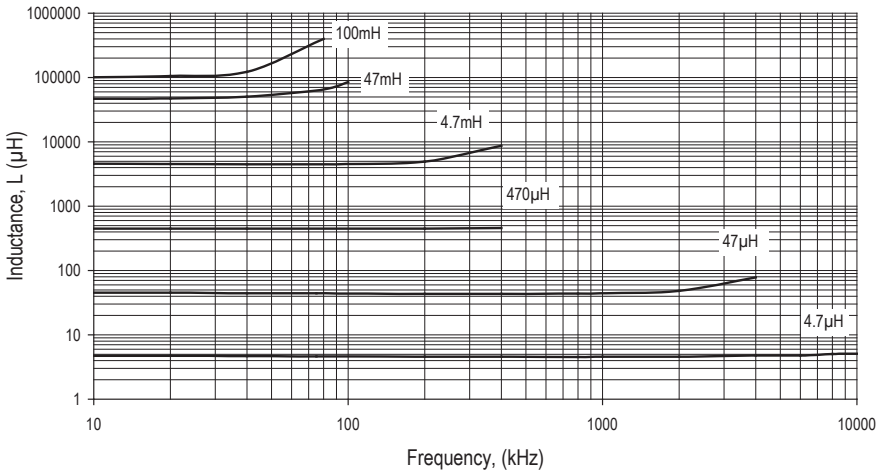
INDUCTANCE Vs CURRENT



TEMPERATURE Vs CURRENT

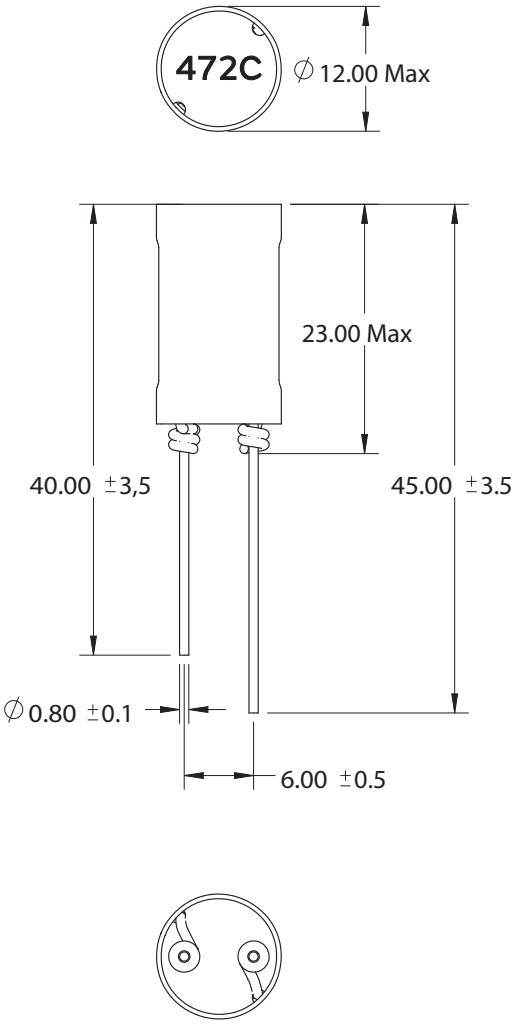


INDUCTANCE Vs FREQUENCY



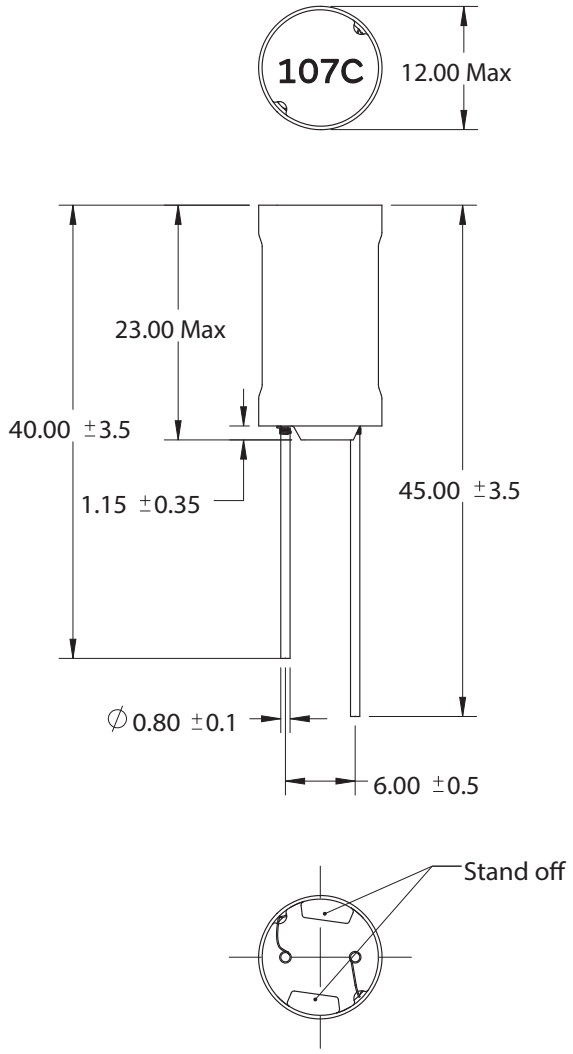
PACKAGE SPECIFICATIONS

MECHANICAL DIMENSIONS A



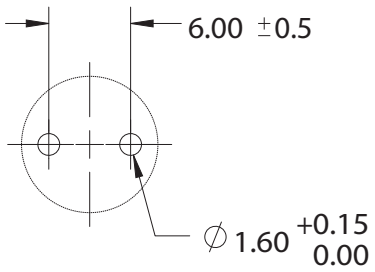
All dimensions in mm (inches).
Supplied in cartons (80 pieces per carton).

MECHANICAL DIMENSIONS B



All dimensions in mm (inches).
Supplied in cartons (80 pieces per carton).

RECOMMENDED FOOTPRINT DETAILS



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- 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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