Effective October 2017 Supersedes October 2014

RL0607 Unshielded radial leaded drum core inductors



Product features

Applications

- · LED Drivers and lighting
- · Utility meters
- · Appliances and white goods
- Motor drives
- Power supplies
- General pu pose fistering

Environmen har data

- Sto age temperature range (Compo 40 °C to +125 °C
- Operating temperature range. 40 °C to +125 °C (ambient plus self-temper iture rise)
 - RoHS



Technical Data 10334 Effective October 2017

Product specifications

Part Number⁴	OCL ¹ (μH) ±10%	l _{rms} ² (A)	I ³ (A)	DCR (Ω) @ +20 °C max.	SRF (MHz) typ.
RL0607-6R8-R	6.8 ± 20%	2.23	1.82	0.038	26
RL0607-100-R	10	1.82	1.51	0.058	21
RL0607-180-R	18	1.52	1.13	0.083	16
RL0607-330-R	33	1.08	0.840	0.171	11
RL0607-470-R	47	0.953	0.690	0.217	8
RL0607-820-R	82	0.686	0.530	0.426	6
RL0607-151-R	150	0.520	0.390	0.730	4
RL0607-221-R	220	0.423	0.320	1.10	3
RL0607-471-R	470	0.306	0.220	2.00	2
RL0607-821-R	820	0.219	0.170	4.13	2
RL0607-102-R	1000	0.205	0.150	4.76	1
RL0607-152-R	1500	0.166	0.120	7.20	1

1. Open Circuit Inductance (OCL) Test Parameters: 10 kHz, 0.1 V_{ms}, 0.0Adc, +25 °C

2. $I_{\rm rms}$: DC current for an approximate temperature rise of 40 °C without core loss. Derating is necessary for AC currents. PCB layout, trace thickness and width, air-flow, and proximity of other heat generating components will affect the temperature rise. It is recommended that the temperature of the part not exceed +125 °C under worst case operating conditions verified in the end application.

4. Part Number Definition: RL0607-yyy-R - RL060 ' - Product code and size vy r = 1 ductance value in μ H, R = decimal point

in no R is present then third character = number or zeros.

-R" suffix = RoHS compliant

2.0 ±0.8

Dimensions - mm



Recommended pad layout

Schematic





xxx = ino iclance in μ H, R = Je si nel point; if there is no R, then third character = number of zeros why = dute code, R = revision level

*Lead length is after the components are trimmed from the packaging tape roll. Do not roul trace or vias underneath the inductor

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Packaging information - mm



Wave solder profile



350°C, 4-5 second .: (by soldering iron, ver erally manual, hand soldering is not recommended.

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