imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

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Effective October 2017 Supersedes June 2014

RL0809 Unshielded radial leaded drum core inductors



Product features

- Unshielded, leaded drum core
- . wirding rom 10 µH to 33,000 . range from 0.042 A to 2.9 A .9 mm 0/x 5.0 mm through hole pasi ago . Fenite core material

Applications

- · LED Drivers and lighting
- Utility meters
- Appliance electronics
- Motor drives
- Power supplies
- General purpose filtering

Invironmental data

- Clorage temperature range (Color orient): -40 °C to +125 °C
- Operating temperature range: -40 °C to +125 °C (ambient plus self-leir perature rise)





Technical Data 10279

Effective October 2017

Product specifications

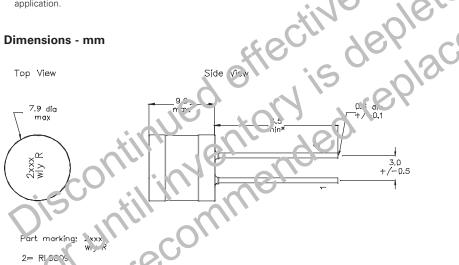
Part Number⁴	OCL ¹ (μΗ) ±10%	I _{rms} ² (A)	l ³ (A)	DCR (Ω) @ +20 °C max.	SRF (MHz) typ.
RL0809-100-R	9.65	2.90	2.47	0.031	18
RL0809-102-R	992	0.312	0.244	2.69	2
RL0809-152-R	1504	0.255	0.198	4.00	2
RL0809-182-R	1792	0.240	0.182	4.52	1
RL0809-222-R	2204	0.207	0.164	6.06	1
RL0809-332-R	3297	0.170	0.134	9.06	1
RL0809-682-R	6796	0.123	0.093	17.3	0.69
RL0809-822-R	8209	0.106	0.085	23.1	0.67
RL0809-103-R	10002	0.099	0.077	26.4	0.59
RL0809-123-R	12011	0.093	0.070	30.0	0.52
RL0809-223-R	21989	0.070	0.052	59.7	0.39
RL0809-333-R	32998	0.058	0.042	78.9	0.31

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

2. I ...: 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.

- 3. Isat: Peak current for approximately 5% rolloff at +25
- 4. Part Number Definition: RL0809-yyy-R $R^{1}_{-}C8U_{-}$ = Product code and size
- y v= inductanco value in μ H, R = decimal point,
- ino R is present then third character = number of zeros.
 - -R" suffix = KoH's compliant

Dimensions - mm



Recommended Hole Layout

Schematic





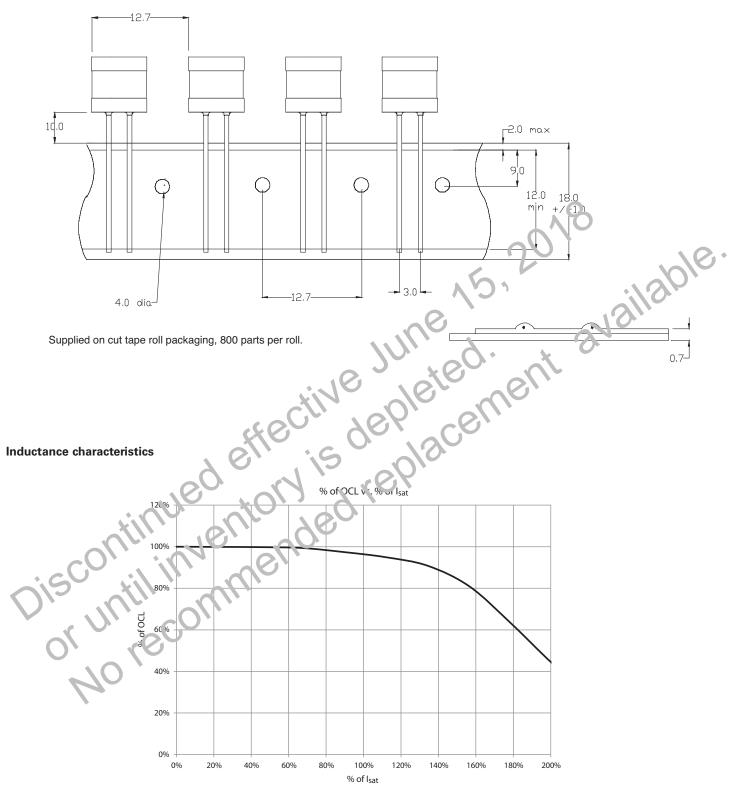
= inductance in uH, R decimal point; if there is no R then third character = # of zeros. ××× wly= date code, R= revision level

* Lead leng n 's Thur the components are trimmed from the packaging tape roll

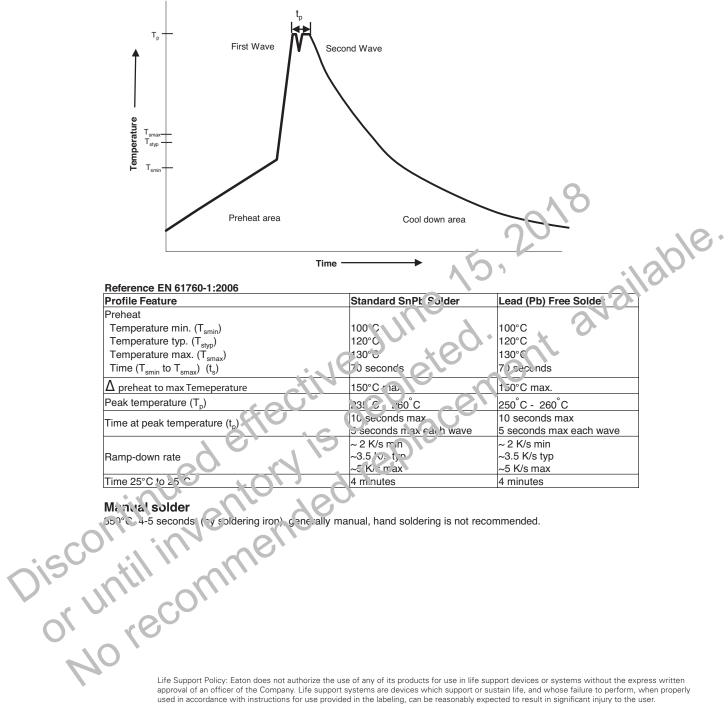
Do not route traces or vias underneath the inductor.

RL0809 Unshielded radial leaded drum core inductors

Packaging information - mm



Wave solder profile



גם איך 4-5 seconds (אין toldering iron), contrally manual, hand soldering is not recommended.

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