Inductors

For Power Line
SMD

RLF Series RLF7030 Type

Accompaning large current power supplies, these inductors have secured efficient characteristics by improving its magnetic circuit based on existing products. These products meet resistance reducing and current enlargement.

FEATURES

- Comparing with existing products(SLF7032), low loss (less than 80%) and large current capability (2.5 times) design.
- Using flat-squere wire for winding, that is rising space factor, these inductors can reduce current resistance and suppress calorific value.
- Forming internal gap, their structure suppress outgoing magnetic flux leakage.
- Completely lead free for both inside of products and terminal electrodes.

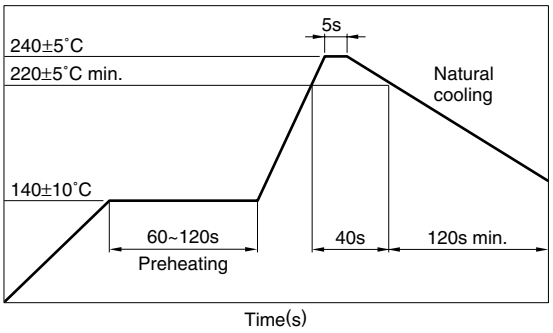
APPLICATIONS

- Choke coils in power circuit of note book and mobile computers, DVD Player, VRM, Plasma Diplay, amusement equipments, etc.

SPECIFICATIONS

Operating temperature range	–40 to +105°C [Including self-temperature rise]
Storage temperature range	–40 to +105°C[Unit of products]

RECOMMENDED REFLOW SOLDERING CONDITIONS



PRODUCT IDENTIFICATIONS

RLF	7030	T-	1R0	N	6R4
(1)	(2)	(3)	(4)	(5)	(6)

(1) Series name

(2) Dimensions L×W×T

7030	7.3x6.8x3.2

(3) Packaging style

T	Taping(reel)

(4) Inductance value

1R0	1µH
6R8	6.8µH

(5) Inductance tolerance

M	±20%
N	±30%

(6) Rated current

6R4	6.4A
2R8	2.8A

PACKAGING STYLE AND QUANTITIES

Packaging style	Quantity
Taping	1000 pieces/reel

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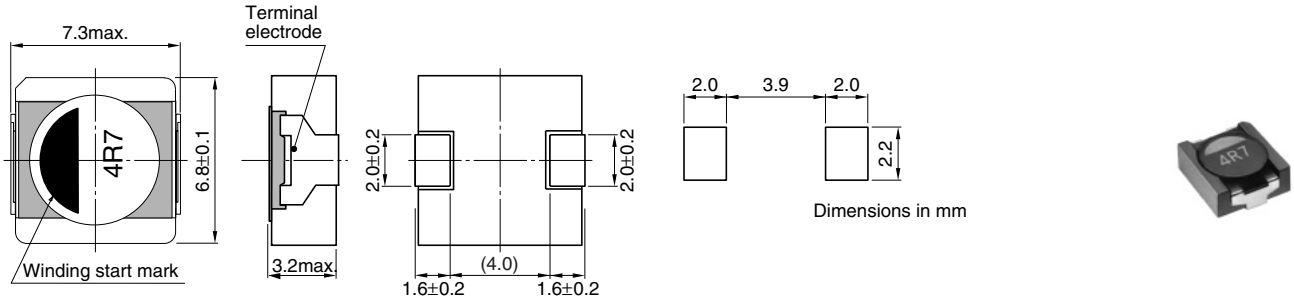
SHAPES AND DIMENSIONS/RECOMMENDED PC BOARD PATTERN



ELECTRICAL CHARACTERISTICS

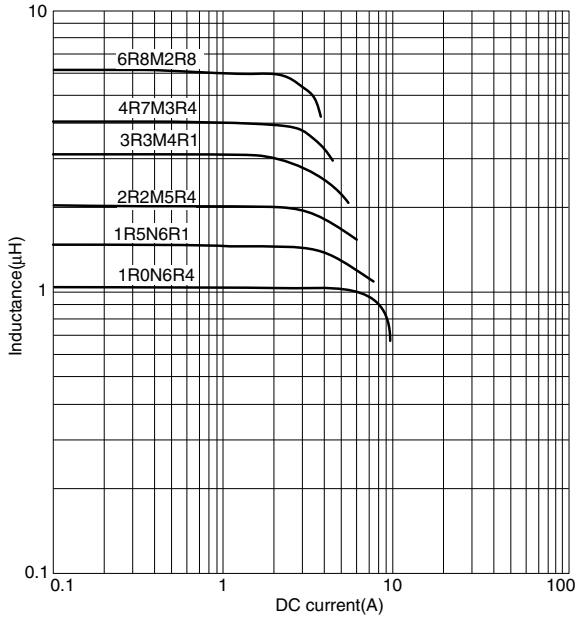
Inductance (μH)	Inductance tolerance (%)	Test frequency L (kHz)	DC resistance (mΩ)	Rated current(A)		Part No.
				Based on inductance change	Based on temperature rise	
1.0	±30	100	8.8 max.(7.3 typ.)	7.9 max. (8.8 typ.)	6.4 typ.	RLF7030T-1R0N6R4
1.5	±30	100	9.6 max.(8.0 typ.)	6.5 max. (7.2 typ.)	6.1 typ.	RLF7030T-1R5N6R1
2.2	±20	100	12 max. (10 typ.)	5.5 max. (5.9 typ.)	5.4 typ.	RLF7030T-2R2M5R4
3.3	±20	100	20 max. (17.4 typ.)	4.4 max. (4.9 typ.)	4.1 typ.	RLF7030T-3R3M4R1
4.7	±20	100	31 max. (26 typ.)	3.5 max. (3.9 typ.)	3.4 typ.	RLF7030T-4R7M3R4
6.8	±20	100	45 max. (37.3 typ.)	3.0 max. (3.4 typ.)	2.8 typ.	RLF7030T-6R8M2R8

* Rated current: Value obtained when current flows and the temperature has risen to 40°C or when DC current flows and the initial value of inductance has fallen by 30%, whichever is smaller.

• Test equipment Inductance: YHP 4194A IMPEDANCE GAIN/PHASE ANALYZER, or equivalent
DC resistance: DIGITAL MILLIOHM METER VP-2941A MATSUSHITA, or equivalent

TYPICAL ELECTRICAL CHARCTERISTICS

INDUCTANCE CHANGE vs. DC SUPERPOSITION CHARACTERISTICS



MEASURING CIRCUIT