

Radial Lead Inductors(Coils) For Power Line

Conformity to RoHS Directive

ELC Series ELC0607

FEATURES

- The ELC series feature low DC resistance and high current handling capacities, making them ideal for power supply applications.
- Epoxy resin construction assures high reliability.
- Available in tape packaging to support automated mounting machines.
- It is a product conforming to RoHS directive.

APPLICATIONS

Televisions, VCRs, personal computers, and other electronic equipment.

SPECIFICATIONS

Operating temperature range	−20 to +80°C [Including self-temperature rise]
Storage temperature range	−40 to +80°C [Unit of products]
Terminal tensile strength	14.7N min.
Flow soldering condition	260°C /10 seconds

PRODUCT IDENTIFICATION

ELC	0607	RA-	1R0	J	3R0	- PF
(1)	(2)	(3)	(4)	(5)	(6)	(7)

(1)Series name

(2)Dimensions

0607	7.4×6.2×10mm (lead pitch 5mm)
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(3)Packaging style (Taping products are standard.)

RA	Taping (ammo-pack)
S	Bulk

(4)Inductance value

1R0	1μH
120	12μH

(5)Inductance tolerance

J	±5%
K	±10%

(6)Rated current

3R0	3A
R92	0.92A

(7)Lead-free compatible product

PF	Lead-free compatible product
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PACKAGING STYLE AND QUANTITIES

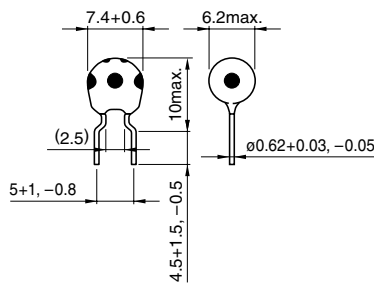
Packaging style	Quantity
Taping(Ammo-pack)	2000 pieces/box
Bulk	1000 pieces/pack

- Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

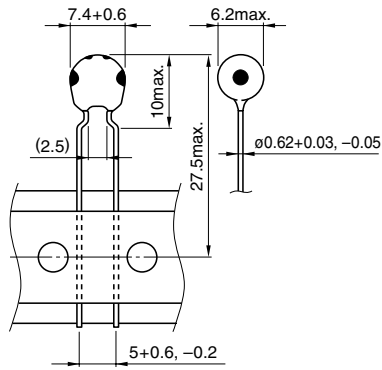
- All specifications are subject to change without notice.

SHAPES AND DIMENSIONS

BULK



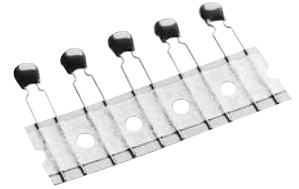
AMMO-PACK TAPING STYLE



Dimensions in mm

CHARACTERISTICS

Operating temperature range	-20 to +80°C [Including self-temperature rise, 20°C max.]
Storage temperature range	-40 to +80°C
Rated current	Based on temperature rise, 20°C
Terminal tensile strength	14.7N min.
Moisture resistance	$\Delta L/L \leq \pm 5\%$ $\Delta Q/Q \leq \pm 25\%$



ELECTRICAL CHARACTERISTICS

Inductance (μH)	Inductance tolerance	Q ref.	Test frequency L, Q(MHz)	DC resistance (Ω)max.	Rated current (A)max.	Part No.
1	±10, ±5%	10	7.96	0.026	3	ELC0607□*1-1R0△*23R0-PF
1.2	±10, ±5%	10	7.96	0.029	2.8	ELC0607□-1R2△2R8-PF
1.5	±10, ±5%	10	7.96	0.031	2.8	ELC0607□-1R5△2R8-PF
1.8	±10, ±5%	10	7.96	0.035	2.6	ELC0607□-1R8△2R6-PF
2.2	±10, ±5%	10	7.96	0.039	2.5	ELC0607□-2R2△2R5-PF
2.7	±10, ±5%	10	7.96	0.041	2.3	ELC0607□-2R7△2R3-PF
3.3	±10, ±5%	10	7.96	0.044	2.2	ELC0607□-3R3△2R2-PF
3.9	±10, ±5%	10	7.96	0.05	2.1	ELC0607□-3R9△2R1-PF
4.7	±10, ±5%	10	7.96	0.052	2	ELC0607□-4R7△2R0-PF
5.6	±10, ±5%	10	7.96	0.062	1.9	ELC0607□-5R6△1R9-PF
6.8	±10, ±5%	10	7.96	0.066	1.8	ELC0607□-6R8△1R8-PF
8.2	±10, ±5%	10	7.96	0.08	1.7	ELC0607□-8R2△1R7-PF
10	±10, ±5%	20	2.52	0.09	1.6	ELC0607□-100△1R6-PF
12	±10, ±5%	20	2.52	0.1	1.5	ELC0607□-120△1R5-PF
15	±10, ±5%	20	2.52	0.12	1.3	ELC0607□-150△1R3-PF
18	±10, ±5%	20	2.52	0.145	1.2	ELC0607□-180△1R2-PF
22	±10, ±5%	20	2.52	0.18	1.2	ELC0607□-220△1R2-PF
27	±10, ±5%	20	2.52	0.22	1	ELC0607□-270△1R0-PF
33	±10, ±5%	20	2.52	0.25	0.92	ELC0607□-330△R92-PF
39	±10, ±5%	20	2.52	0.31	0.88	ELC0607□-390△R88-PF
47	±10, ±5%	20	2.52	0.35	0.77	ELC0607□-470△R77-PF
56	±10, ±5%	20	2.52	0.42	0.72	ELC0607□-560△R72-PF
68	±10, ±5%	20	2.52	0.45	0.63	ELC0607□-680△R63-PF
82	±10, ±5%	20	2.52	0.57	0.61	ELC0607□-820△R61-PF
100	±10, ±5%	20	0.796	0.69	0.55	ELC0607□-101△R55-PF
150	±10, ±5%	30	0.796	1.1	0.44	ELC0607□-151△R44-PF
220	±10, ±5%	40	0.796	1.7	0.36	ELC0607□-221△R36-PF
330	±10, ±5%	50	0.796	2.5	0.29	ELC0607□-331△R29-PF
470	±10, ±5%	60	0.796	4.1	0.23	ELC0607□-471△R23-PF

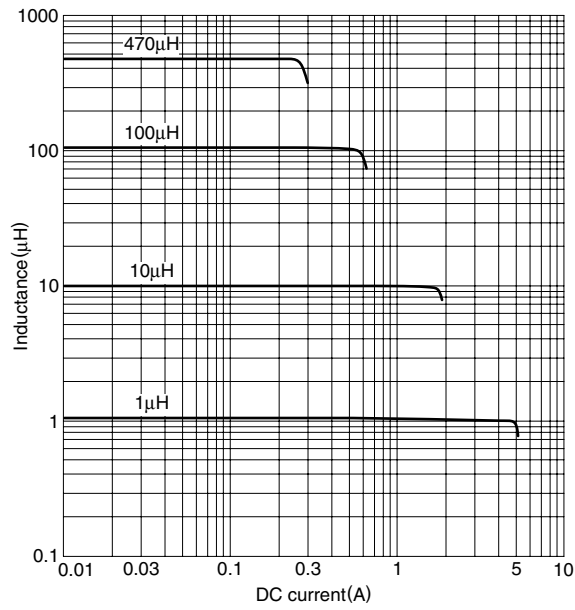
*1 □: Please specify packaging style, S(Bulk) or RA(Taping).

*2 △: Please specify inductance tolerance, K(±10%) or J(±5%).

• Test equipment Inductance, Q: YHP4194A IMPEDANCE/GAIN-PHASE ANALYZER
DC resistance: MATSUSHITA VP-2941A DIGITAL MILLIOHM METER

TYPICAL ELECTRICAL CHARACTERISTICS

INDUCTANCE CHANGE vs. DC SUPERPOSITION CHARACTERISTICS



ATTENUATION vs. FREQUENCY CHARACTERISTICS

