

# Inductors

## For General Applications

### Radial

## EL Series EL0607 Type

### FEATURES

- The EL series inductors are available in ranging from 0304 to 0909 types.
- With a miniature winding construction, these inductors nonetheless achieve high Q characteristics.
- Available in tape packaging to support automated mounting machines.

### 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.

### PRODUCT IDENTIFICATION

<u>EL</u>	<u>0607</u>	<u>RA-</u>	<u>100</u>	<u>K</u>	<u>-3</u>
(1)	(2)	(3)	(4)	(5)	(6)

(1)Series name

(2)Dimensions

0607	7.4×6.2×10mm (lead pitch 5mm)
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(3)Packaging style

RA	Ammo-pack
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(4)Inductance value

100	10μH
101	100μH

(5)Inductance tolerance

J	±5%
K	±10%

(6)TDK internal code

(Some products may not have this number. See the main body for details.)

### PACKAGING STYLE AND QUANTITIES

Packaging style	Quantity
Ammo-pack	2000 pieces

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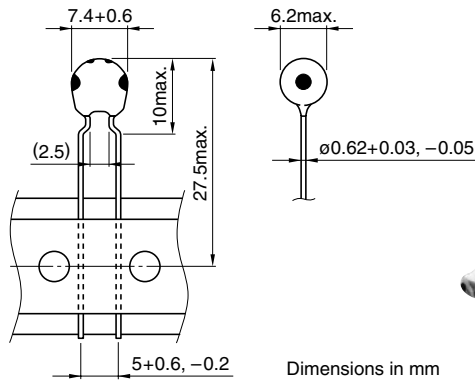
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### AMMO-PACK TAPING STYLE

#### SHAPES AND DIMENSIONS



### CHARACTERISTICS

Operating temperature range	-20 to +80°C [Including self-temperature rise 20°C max.]
Withstand voltage Erms	250V
Rated current	Based on inductance change [-10% to the initial value]
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 min.	Test frequency L, Q(MHz)	Self-resonant frequency (MHz)min.	DC resistance (Ω)max.	Rated current (mA)max.	Part No.
10	±10, ±5%	20	2.52	17	0.19	780	EL0607RA-100X*
12	±10, ±5%	20	2.52	14	0.22	730	EL0607RA-120X
15	±10, ±5%	20	2.52	12	0.24	650	EL0607RA-150X
18	±10, ±5%	20	2.52	10.5	0.26	610	EL0607RA-180X
22	±10, ±5%	20	2.52	10	0.29	540	EL0607RA-220X
27	±10, ±5%	20	2.52	9.5	0.32	480	EL0607RA-270X
33	±10, ±5%	20	2.52	8.5	0.34	440	EL0607RA-330X
39	±10, ±5%	20	2.52	8	0.42	410	EL0607RA-390X
47	±10, ±5%	20	2.52	7	0.47	375	EL0607RA-470X
56	±10, ±5%	20	2.52	6.8	0.52	340	EL0607RA-560X
68	±10, ±5%	15	2.52	6.5	0.58	320	EL0607RA-680X
82	±10, ±5%	15	2.52	6.3	0.64	285	EL0607RA-820X
100	±10, ±5%	25	0.796	6	0.85	260	EL0607RA-101X
120	±10, ±5%	25	0.796	5.4	1	240	EL0607RA-121X
150	±10, ±5%	25	0.796	4.75	1.2	215	EL0607RA-151X
180	±10, ±5%	30	0.796	4	1.5	195	EL0607RA-181X
220	±10, ±5%	30	0.796	3.85	1.65	180	EL0607RA-221X
270	±10, ±5%	30	0.796	3.6	2.15	160	EL0607RA-271X
330	±10, ±5%	35	0.796	3.3	2.9	145	EL0607RA-331X
390	±10, ±5%	35	0.796	3	3.25	135	EL0607RA-391X
470	±10, ±5%	35	0.796	2.8	4.05	125	EL0607RA-471X
560	±10, ±5%	40	0.796	2.4	4.45	115	EL0607RA-561X
680	±10, ±5%	40	0.796	2.2	5.85	105	EL0607RA-681X
820	±10, ±5%	40	0.796	2	6.6	90	EL0607RA-821X
1000	±10, ±5%	45	0.252	1.8	8.9	85	EL0607RA-102X
1200	±10, ±5%	45	0.252	1.7	10.5	75	EL0607RA-122X
1500	±10, ±5%	45	0.252	1.5	11.9	70	EL0607RA-152X
1800	±10, ±5%	45	0.252	1.3	16.5	60	EL0607RA-182X
2200	±10, ±5%	45	0.252	1.2	19	58	EL0607RA-222X
2700	±10, ±5%	40	0.252	0.8	32	52	EL0607RA-272X

\* X: Please specify inductance tolerance, K(±10%) or J(±5%)

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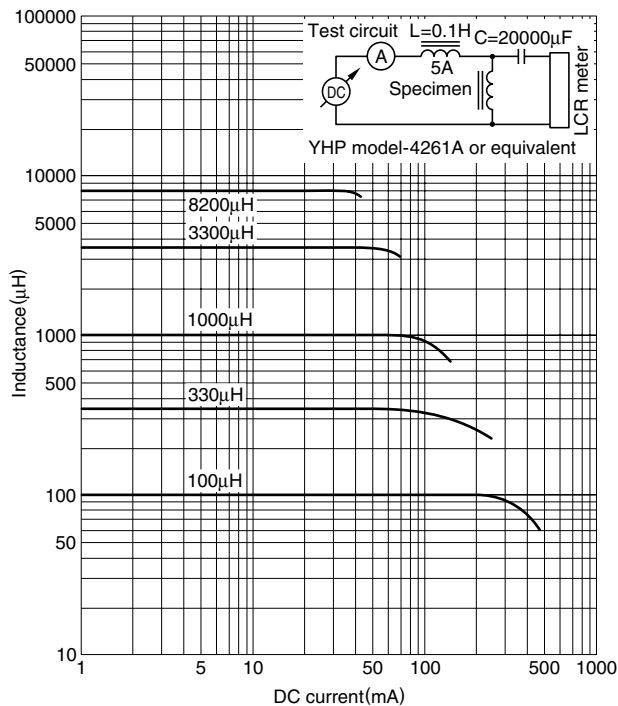
### ELECTRICAL CHARACTERISTICS

Inductance ( $\mu\text{H}$ )	Inductance tolerance	Q min.	Test frequency L, Q(MHz)	Self-resonant frequency (MHz)min.	DC resistance ( $\Omega$ )max.	Rated current (mA)max.	Part No.
3300	$\pm 10, \pm 5\%$	40	0.252	0.7	34	48	EL0607RA-332X*
3900	$\pm 10, \pm 5\%$	40	0.252	0.7	38	45	EL0607RA-392X
4700	$\pm 10, \pm 5\%$	40	0.252	0.6	56	40	EL0607RA-472X
5600	$\pm 10, \pm 5\%$	40	0.252	0.5	63	37	EL0607RA-562X
6800	$\pm 10, \pm 5\%$	40	0.252	0.4	70	34	EL0607RA-682X
8200	$\pm 10, \pm 5\%$	40	0.252	0.4	77	31	EL0607RA-822X
10000	$\pm 10, \pm 5\%$	25	0.0796	0.3	95	28	EL0607RA-103X
12000	$\pm 10, \pm 5\%$	25	0.0796	0.2	110	25	EL0607RA-123X
15000	$\pm 10, \pm 5\%$	20	0.0796	0.1	160	21	EL0607RA-153X

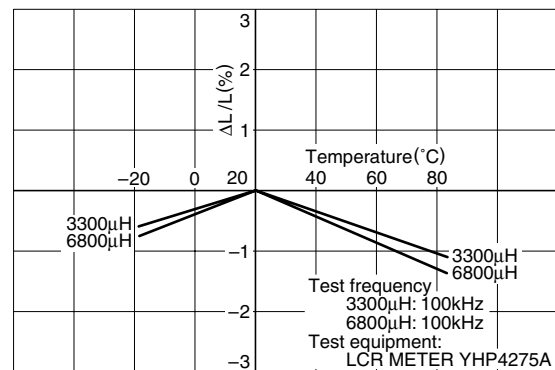
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### TYPICAL ELECTRICAL CHARACTERISTICS

#### INDUCTANCE CHANGE vs. DC SUPERPOSITION CHARACTERISTICS



#### INDUCTANCE CHANGE vs. TEMPERATURE CHARACTERISTICS



Test terminal: Measuring at after the correction  
Cycle:  $+20^\circ\text{C} \rightarrow +85^\circ\text{C} \rightarrow +20^\circ\text{C} \rightarrow -20^\circ\text{C}$   
Temperature: Kept stabilized for 30+5, -0min each

#### Q vs. FREQUENCY CHARACTERISTICS

