

Inductors

For General Applications

Radial

EL Series EL0305 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	7.84N min.

PRODUCT IDENTIFICATION

<u>EL</u>	<u>0305</u>	<u>RA-</u>	<u>1R0</u>	<u>K</u>	<u>-3</u>
(1)	(2)	(3)	(4)	(5)	(6)

(1) Series name

(2) Dimensions

0305	5×3.8×5mm (lead pitch 5mm)
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(3) Packaging style

RA	Ammo-pack
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(4) Inductance value

R22	0.22μH
1R0	1μH

(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	3000 pieces

Inductors

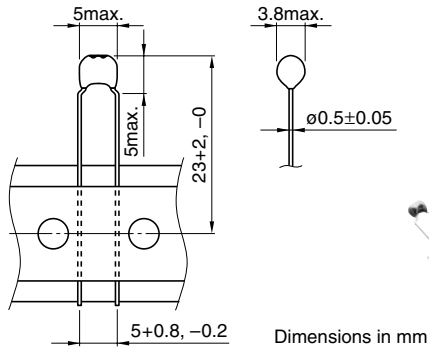
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AMMO-PACK TAPING STYLE

SHAPES AND DIMENSIONS



CHARACTERISTICS

Operating temperature range	-20 to +80°C [Including self-temperature rise, 20°Cmax.]
Withstand voltage Erms	250V
Rated current	Based on the inductance variation [-10% to the initial value]
Terminal tensile strength	7.84N min.
Moisture resistance	$\Delta L/L \leq \pm 5\%$ $\Delta Q/Q \leq \pm 25\%$

ELECTRICAL CHARACTERISTICS

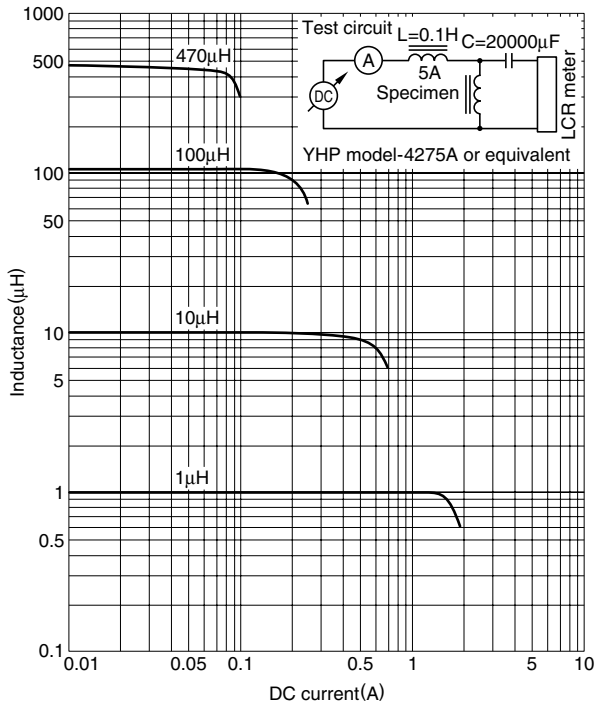
Inductance (μH)	Inductance tolerance	Q min.	Test frequency L, Q(MHz)	Self-resonant frequency (MHz)min.	DC resistance (Ω)max.	Rated current (mA)max	Part No.
0.22	±10%	20	25.2	150	0.08	1400	EL0305RA-R22K
0.33	±10%	20	25.2	150	0.09	1300	EL0305RA-R33K
0.47	±10%	20	25.2	130	0.1	1200	EL0305RA-R47K
0.68	±10%	20	25.2	120	0.12	1100	EL0305RA-R68K
1	±10%	50	7.96	100	0.14	1000	EL0305RA-1R0K
1.5	±10%	50	7.96	70	0.2	800	EL0305RA-1R5K
2.2	±5%	50	7.96	55	0.21	750	EL0305RA-2R2J
3.3	±5%	50	7.96	45	0.24	670	EL0305RA-3R3J
4.7	±5%	50	7.96	35	0.29	560	EL0305RA-4R7J
6.8	±5%	50	7.96	27	0.36	420	EL0305RA-6R8J
10	±5%	15	2.52	20	0.4	400	EL0305RA-100J
15	±5%	15	2.52	17	0.51	320	EL0305RA-150J
22	±5%	15	2.52	13	0.65	300	EL0305RA-220J
33	±5%	15	2.52	10.5	1	240	EL0305RA-330J
47	±5%	15	2.52	9.5	1.4	180	EL0305RA-470J
68	±5%	15	2.52	8.5	1.8	170	EL0305RA-680J
100	±5%	40	0.796	6.8	3	140	EL0305RA-101J
150	±5%	40	0.796	5.7	4.8	120	EL0305RA-151J
220	±5%	40	0.796	4	7.8	90	EL0305RA-221J
330	±5%	40	0.796	3.3	11	80	EL0305RA-331J
470	±5%	40	0.796	2.8	17	60	EL0305RA-471J

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TYPICAL ELECTRICAL CHARACTERISTICS INDUCTANCE CHANGE vs. DC SUPERPOSITION CHARACTERISTICS



Q vs. FREQUENCY CHARACTERISTICS

