

Inductors (Coils)
Fixed
RF-frequency

RADIAL LEADED INDUCTORS

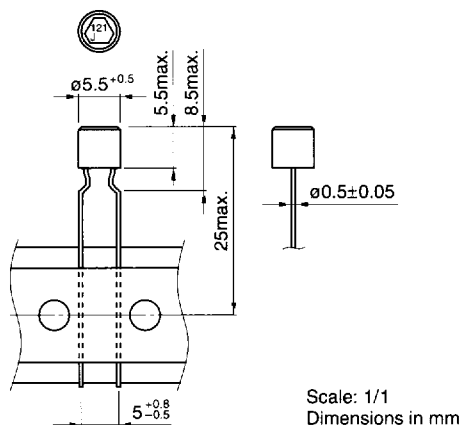
Shielded
ELF series

FEATURES

- Inductive interference drastically reduced.
- Special construction prevents binding of leads to the terminal.
- Excellent Q frequency characteristics.
- High withstand voltage and insulation resistance.
- Small-sized.

ELF0505 TYPE (Ammo-pack taping style)

SHAPES AND DIMENSIONS

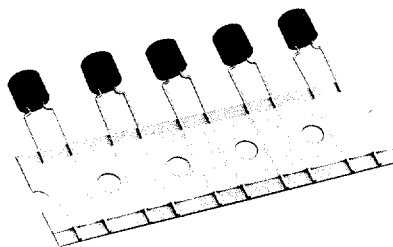


APPLICATIONS

Video cameras, portable VCRs, CTV, audio equipment, personal computers, computer-controlled toys.

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 max. (calculated value for approximately 0.12W) Based on inductance change rate: 10% drop in initial value
Temperature characteristics	$\Delta L/L \leq \pm 10\%$ (for room temperature -20 to +80°C)
Cross coupling	1% max. (MIL-C-15305D, 4.8, 8.4)



ELECTRICAL CHARACTERISTICS

Inductance (μ H)	Inductance tolerance	Q min.	Test frequency L, Q (MHz)	Self-resonant frequency (MHz)ref.	DC resistance (Ω)max.	Rated current(mA)max.		Part No.
						Based on inductance change	Based on temperature rise	
0.22	$\pm 20, \pm 10\%$	45	25.2	500	0.15	600	895	ELF0505RA-R22□*-3
0.27	$\pm 20, \pm 10\%$	45	25.2	470	0.15	600	895	ELF0505RA-R27□-3
0.33	$\pm 20, \pm 10\%$	45	25.2	340	0.15	600	895	ELF0505RA-R33□-3
0.39	$\pm 20, \pm 10\%$	45	25.2	290	0.15	600	895	ELF0505RA-R39□-3
0.47	$\pm 20, \pm 10\%$	45	25.2	250	0.15	600	895	ELF0505RA-R47□-3
0.56	$\pm 20, \pm 10\%$	45	25.2	210	0.15	600	895	ELF0505RA-R56□-3
0.68	$\pm 20, \pm 10\%$	45	25.2	180	0.15	600	895	ELF0505RA-R68□-3
0.82	$\pm 20, \pm 10\%$	45	25.2	135	0.15	600	895	ELF0505RA-R82□-3
1	$\pm 20, \pm 10\%$	50	7.96	125	0.15	600	895	ELF0505RA-1R0□-3
1.2	$\pm 20, \pm 10\%$	50	7.96	110	0.16	600	865	ELF0505RA-1R2□-3
1.5	$\pm 20, \pm 10\%$	50	7.96	99	0.19	600	795	ELF0505RA-1R5□-3
1.8	$\pm 20, \pm 10\%$	50	7.96	88	0.2	600	775	ELF0505RA-1R8□-3
2.2	$\pm 20, \pm 10\%$	50	7.96	79	0.23	600	720	ELF0505RA-2R2□-3
2.7	$\pm 20, \pm 10\%$	50	7.96	70	0.26	600	680	ELF0505RA-2R7□-3
3.3	$\pm 20, \pm 10\%$	50	7.96	63	0.29	600	645	ELF0505RA-3R3□-3
3.9	$\pm 20, \pm 10\%$	50	7.96	58	0.32	590	610	ELF0505RA-3R9□-3
4.7	$\pm 20, \pm 10\%$	50	7.96	53	0.36	540	575	ELF0505RA-4R7□-3
5.6	$\pm 20, \pm 10\%$	40	7.96	49	0.4	500	550	ELF0505RA-5R6□-3
6.8	$\pm 20, \pm 10\%$	40	7.96	45	0.44	455	520	ELF0505RA-6R8□-3
8.2	$\pm 20, \pm 10\%$	35	7.96	41	0.5	395	490	ELF0505RA-8R2□-3

*□: Please specify inductance tolerance, M($\pm 20\%$), K($\pm 10\%$)

• Test equipment L, Q: YHP4340A Q METER, or equivalent

SRF: TAKEDA RIKEN TR-4100 TRACKING SCOPE, or equivalent

Rdc: MATSUSHITA VP-2941A DIGITAL MILLIOHM METER, or equivalent

6-52

Catalog No. AVE-002

TDK
TDK CORPORATION



Specifications which provide more details for the proper and safe use of the described product are available upon request.

All specifications are subject to change without notice.

Inductors (Coils)
Fixed
RF-frequency

RADIAL LEADED INDUCTORS

Shielded

ELF series

ELF0505 TYPE

ELECTRICAL CHARACTERISTICS

Inductance (μ H)	Inductance tolerance	Q min.	Test frequency L, Q (MHz)	Self-resonant frequency (MHz)ref.	DC resistance (Ω)max.	Rated current(mA)max.		Part No.
						Based on inductance change	Based on temperature rise	
10	$\pm 10, \pm 5\%$	50	2.52	37	0.8	380	385	ELF0505RA-100□*-3
12	$\pm 10, \pm 5\%$	50	2.52	34	0.89	350	365	ELF0505RA-120□-3
15	$\pm 10, \pm 5\%$	50	2.52	31	1.02	320	345	ELF0505RA-150□-3
18	$\pm 10, \pm 5\%$	50	2.52	28	1.14	290	325	ELF0505RA-180□-3
22	$\pm 10, \pm 5\%$	50	2.52	25	1.3	265	305	ELF0505RA-220□-3
27	$\pm 10, \pm 5\%$	50	2.52	23	1.46	240	285	ELF0505RA-270□-3
33	$\pm 10, \pm 5\%$	50	2.52	21	1.65	220	270	ELF0505RA-330□-3
39	$\pm 10, \pm 5\%$	50	2.52	19	1.83	200	255	ELF0505RA-390□-3
47	$\pm 10, \pm 5\%$	45	2.52	17.5	2.05	185	240	ELF0505RA-470□-3
56	$\pm 10, \pm 5\%$	50	2.52	16	2.3	170	230	ELF0505RA-560□-3
68	$\pm 10, \pm 5\%$	45	2.52	14.5	2.6	155	215	ELF0505RA-680□-3
82	$\pm 10, \pm 5\%$	45	2.52	13	3.1	145	195	ELF0505RA-820□-3
100	$\pm 10, \pm 5\%$	40	0.796	12	3.3	130	190	ELF0505RA-101□-3
120	$\pm 10, \pm 5\%$	40	0.796	11	4.7	120	160	ELF0505RA-121□-3
150	$\pm 10, \pm 5\%$	40	0.796	10	5.4	108	150	ELF0505RA-151□-3
180	$\pm 10, \pm 5\%$	40	0.796	9.2	5.6	99	145	ELF0505RA-181□-3
220	$\pm 10, \pm 5\%$	40	0.796	8.4	6.9	90	130	ELF0505RA-221□-3
270	$\pm 10, \pm 5\%$	40	0.796	7.6	7.8	82	125	ELF0505RA-271□-3
330	$\pm 10, \pm 5\%$	40	0.796	6.9	8.9	75	115	ELF0505RA-331□-3
390	$\pm 10, \pm 5\%$	40	0.796	6.4	13	69	96	ELF0505RA-391□-3
470	$\pm 10, \pm 5\%$	40	0.796	5.8	14.8	63	90	ELF0505RA-471□-3
560	$\pm 10, \pm 5\%$	40	0.796	5.3	16.5	58	85	ELF0505RA-561□-3
680	$\pm 10, \pm 5\%$	40	0.796	5	18.5	53	81	ELF0505RA-681□-3
820	$\pm 10, \pm 5\%$	40	0.796	4.7	26	48	68	ELF0505RA-821□-3
1000	$\pm 10, \pm 5\%$	30	0.252	4.4	31	44	62	ELF0505RA-102□-3
1200	$\pm 10, \pm 5\%$	30	0.252	4.1	37	40	57	ELF0505RA-122□-3

*□: Please specify inductance tolerance, K($\pm 10\%$), J($\pm 5\%$)

- Test equipment L, Q: YHP4340A Q METER, or equivalent
SRF: TAKEDA RIKEN TR-4100 TRACKING SCOPE, or equivalent
Rdc: MATSUSHITA VP-2941A DIGITAL MILLIOHM METER, or equivalent



Specifications which provide more details for the proper and safe use of the described product are available upon request.

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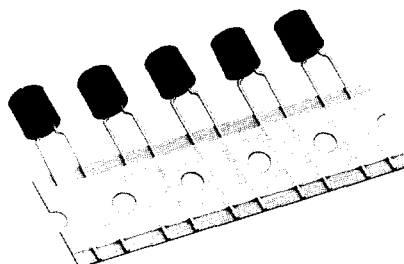
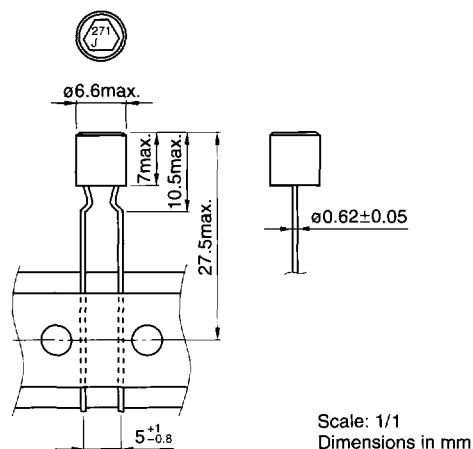
RADIAL LEADED INDUCTORS

Shielded

ELF series

ELF0607 TYPE (Ammo-pack taping style)

SHAPES AND DIMENSIONS



ELECTRICAL CHARACTERISTICS

Inductance (μ H)	Inductance tolerance	Q min.	Test frequency L, Q (MHz)	Self-resonant frequency (MHz)ref.	DC resistance (Ω)max.	Rated current(mA)max.		Part No.
						Based on inductance change	Based on temperature rise	
0.22	$\pm 20, \pm 10\%$	40	25.2	390	0.15	3200	895	ELF0607RA-R22□*
0.27	$\pm 20, \pm 10\%$	40	25.2	330	0.15	2900	895	ELF0607RA-R27□
0.33	$\pm 20, \pm 10\%$	40	25.2	280	0.15	2600	895	ELF0607RA-R33□
0.39	$\pm 20, \pm 10\%$	40	25.2	250	0.15	2400	895	ELF0607RA-R39□
0.47	$\pm 20, \pm 10\%$	40	25.2	220	0.15	2200	895	ELF0607RA-R47□
0.56	$\pm 20, \pm 10\%$	40	25.2	190	0.15	2100	895	ELF0607RA-R56□
0.68	$\pm 20, \pm 10\%$	40	25.2	170	0.15	1900	895	ELF0607RA-R68□
0.82	$\pm 20, \pm 10\%$	40	25.2	140	0.15	1700	895	ELF0607RA-R82□
1	$\pm 20, \pm 10\%$	45	7.96	120	0.17	1600	840	ELF0607RA-1R0□
1.2	$\pm 20, \pm 10\%$	50	7.96	110	0.18	1500	815	ELF0607RA-1R2□
1.5	$\pm 20, \pm 10\%$	50	7.96	90	0.2	1300	775	ELF0607RA-1R5□
1.8	$\pm 20, \pm 10\%$	50	7.96	80	0.22	1200	740	ELF0607RA-1R8□
2.2	$\pm 20, \pm 10\%$	50	7.96	68	0.25	1100	690	ELF0607RA-2R2□
2.7	$\pm 20, \pm 10\%$	50	7.96	58	0.28	1000	655	ELF0607RA-2R7□
3.3	$\pm 20, \pm 10\%$	50	7.96	50	0.31	930	622	ELF0607RA-3R3□
3.9	$\pm 20, \pm 10\%$	50	7.96	47	0.34	860	595	ELF0607RA-3R9□
4.7	$\pm 20, \pm 10\%$	50	7.96	42	0.37	790	570	ELF0607RA-4R7□
5.6	$\pm 20, \pm 10\%$	50	7.96	39	0.4	730	545	ELF0607RA-5R6□
6.8	$\pm 20, \pm 10\%$	50	7.96	35	0.45	660	515	ELF0607RA-6R8□
8.2	$\pm 20, \pm 10\%$	50	7.96	32	0.52	580	480	ELF0607RA-8R2□
10	$\pm 10, \pm 5\%$	50	2.52	29	0.55	560	465	ELF0607RA-100□
12	$\pm 10, \pm 5\%$	60	2.52	26	0.97	520	350	ELF0607RA-120□
15	$\pm 10, \pm 5\%$	60	2.52	23	1.1	470	330	ELF0607RA-150□
18	$\pm 10, \pm 5\%$	60	2.52	21	1.2	430	315	ELF0607RA-180□

*□: Please specify inductance tolerance, M($\pm 20\%$), K($\pm 10\%$), J($\pm 5\%$)

• Test equipment L, Q: YHP4340A Q METER, or equivalent

SRF: TAKEDA RIKEN TR-4100 TRACKING SCOPE, or equivalent

Rdc: MATSUSHITA VP-2941A DIGITAL MILLIOHM METER, or equivalent



Inductors (Coils)
Fixed
RF-frequency

RADIAL LEADED INDUCTORS

Shielded

ELF series

ELF0607 TYPE

ELECTRICAL CHARACTERISTICS

Inductance (μH)	Inductance tolerance	Q min.	Test frequency L, Q (MHz)	Self-resonant frequency (MHz)ref.	DC resistance (Ω)max.	Rated current(mA)max.		Part No.
						Based on inductance change	Based on temperature rise	
22	±10, ±5%	60	2.52	19	1.3	390	300	ELF0607RA-220□*
27	±10, ±5%	60	2.52	17	1.5	360	285	ELF0607RA-270□
33	±10, ±5%	60	2.52	16	1.7	330	265	ELF0607RA-330□
39	±10, ±5%	60	2.52	14	1.8	300	255	ELF0607RA-390□
47	±10, ±5%	60	2.52	13	2.1	270	240	ELF0607RA-470□
56	±10, ±5%	60	2.52	12	2.3	250	230	ELF0607RA-560□
68	±10, ±5%	60	2.52	11	2.5	230	220	ELF0607RA-680□
82	±10, ±5%	60	2.52	9.8	2.8	210	205	ELF0607RA-820□
100	±10, ±5%	55	0.796	8.9	3.1	200	195	ELF0607RA-101□
120	±10, ±5%	40	0.796	8	3.4	175	185	ELF0607RA-121□
150	±10, ±5%	40	0.796	7.2	3.9	165	175	ELF0607RA-151□
180	±10, ±5%	40	0.796	6.6	4.3	150	165	ELF0607RA-181□
220	±10, ±5%	40	0.796	6	4.7	140	160	ELF0607RA-221□
270	±10, ±5%	40	0.796	5.3	5.3	125	150	ELF0607RA-271□
330	±10, ±5%	40	0.796	4.8	6	115	140	ELF0607RA-331□
390	±10, ±5%	40	0.796	4.4	6.6	105	135	ELF0607RA-391□
470	±10, ±5%	40	0.796	4	7.4	97	125	ELF0607RA-471□
560	±10, ±5%	40	0.796	3.8	8.3	90	120	ELF0607RA-561□
680	±10, ±5%	40	0.796	3.5	13.5	82	94	ELF0607RA-681□
820	±10, ±5%	40	0.796	3.2	15.5	75	88	ELF0607RA-821□
1000	±10, ±5%	30	0.252	2.9	18	68	82	ELF0607RA-102□
1200	±10, ±5%	30	0.252	2.7	21	63	76	ELF0607RA-122□
1500	±10, ±5%	30	0.252	2.4	25	57	69	ELF0607RA-152□
1800	±10, ±5%	30	0.252	2.2	29	52	64	ELF0607RA-182□
2200	±10, ±5%	30	0.252	2	34	48	59	ELF0607RA-222□
2700	±10, ±5%	30	0.252	1.8	40	43	55	ELF0607RA-272□

*□: Please specify inductance tolerance, K(±10%), J(±5%)

- Test equipment L, Q: YHP4340A Q METER, or equivalent
SRF: TAKEDA RIKEN TR-4100 TRACKING SCOPE, or equivalent
Rdc: MATSUSHITA VP-2941A DIGITAL MILLIOHM METER, or equivalent



Specifications which provide more details for the proper and safe use of the described product are available upon request.

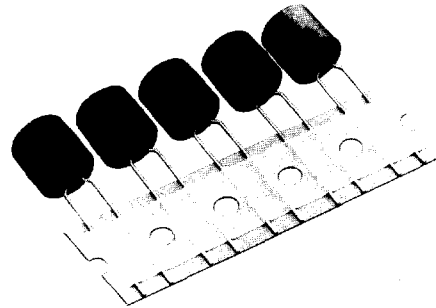
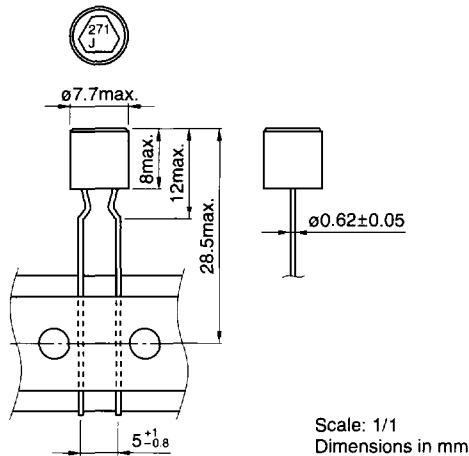
All specifications are subject to change without notice.

RADIAL LEADED INDUCTORS

Shielded

ELF series

ELF0708 TYPE (Ammo-pack taping style) SHAPES AND DIMENSIONS



ELECTRICAL CHARACTERISTICS

Inductance (μH)	Inductance tolerance	Q min.	Test frequency L, Q (MHz)	Self-resonant frequency (MHz) ref.	DC resistance (Ω) max.	Rated current (mA) max.		Part No.
						Based on inductance change	Based on temperature rise	
10	$\pm 10, \pm 5\%$	25[ref.]	2.52	23	0.19	550	795	ELF0708RA-100□*
12	$\pm 10, \pm 5\%$	25[ref.]	2.52	19	0.2	500	775	ELF0708RA-120□
15	$\pm 10, \pm 5\%$	25[ref.]	2.52	16	0.22	450	740	ELF0708RA-150□
18	$\pm 10, \pm 5\%$	25[ref.]	2.52	14	0.24	410	705	ELF0708RA-180□
22	$\pm 10, \pm 5\%$	25[ref.]	2.52	13	0.26	380	680	ELF0708RA-220□
27	$\pm 10, \pm 5\%$	25[ref.]	2.52	12	0.28	340	655	ELF0708RA-270□
33	$\pm 10, \pm 5\%$	25[ref.]	2.52	11	0.3	310	630	ELF0708RA-330□
39	$\pm 10, \pm 5\%$	25[ref.]	2.52	10	0.33	280	605	ELF0708RA-390□
47	$\pm 10, \pm 5\%$	25[ref.]	2.52	9.4	0.35	260	585	ELF0708RA-470□
56	$\pm 10, \pm 5\%$	25[ref.]	2.52	8.7	0.48	240	500	ELF0708RA-560□
68	$\pm 10, \pm 5\%$	25[ref.]	2.52	8	0.52	215	480	ELF0708RA-680□
82	$\pm 10, \pm 5\%$	25[ref.]	2.52	7.3	0.57	200	460	ELF0708RA-820□
100	$\pm 10, \pm 5\%$	30	0.796	6.7	0.66	180	425	ELF0708RA-101□
120	$\pm 10, \pm 5\%$	30	0.796	6.2	0.75	165	400	ELF0708RA-121□
150	$\pm 10, \pm 5\%$	30	0.796	5.6	0.89	145	365	ELF0708RA-151□
180	$\pm 10, \pm 5\%$	30	0.796	5.2	1	135	345	ELF0708RA-181□
220	$\pm 10, \pm 5\%$	30	0.796	4.7	1.2	120	315	ELF0708RA-221□
270	$\pm 10, \pm 5\%$	30	0.796	4.3	1.5	110	285	ELF0708RA-271□
330	$\pm 10, \pm 5\%$	35	0.796	4	1.8	100	260	ELF0708RA-331□
390	$\pm 10, \pm 5\%$	35	0.796	3.7	2.1	92	240	ELF0708RA-391□
470	$\pm 10, \pm 5\%$	35	0.796	3.4	2.5	84	220	ELF0708RA-471□
560	$\pm 10, \pm 5\%$	35	0.796	3.1	3	76	200	ELF0708RA-561□
680	$\pm 10, \pm 5\%$	35	0.796	2.9	3.7	70	180	ELF0708RA-681□

*□: Please specify inductance tolerance, K($\pm 10\%$), J($\pm 5\%$)

• Test equipment L, Q: YHP4340A Q METER, or equivalent

SRF: TAKEDA RIKEN TR-4100 TRACKING SCOPE, or equivalent

Rdc: MATSUSHITA VP-2941A DIGITAL MILLIOHM METER, or equivalent



Inductors (Coils)
Fixed
RF-frequency

RADIAL LEADED INDUCTORS

Shielded

ELF series

ELF0708 TYPE

ELECTRICAL CHARACTERISTICS

Inductance (μ H)	Inductance tolerance	Q min.	Test frequency L, Q (MHz)	Self-resonant frequency (MHz)ref.	DC resistance (Ω)max.	Rated current (mA)max.		Part No.
						Based on Inductance change	Based on temperature rise	
820	$\pm 10, \pm 5\%$	35	0.796	2.7	4.4	63	165	ELF0708RA-821□*1
1000	$\pm 10, \pm 5\%$	40	0.252	2.4	5.6	58	145	ELF0708RA-102□
1200	$\pm 10, \pm 5\%$	40	0.252	2.2	6.8	53	135	ELF0708RA-122□
1500	$\pm 10, \pm 5\%$	40	0.252	2	9.8	47	110	ELF0708RA-152□
1800	$\pm 10, \pm 5\%$	40	0.252	1.9	11	43	105	ELF0708RA-182□
2200	$\pm 10, \pm 5\%$	40	0.252	1.7	13	40	100	ELF0708RA-222□
2700	$\pm 10, \pm 5\%$	40	0.252	1.6	17	35	85	ELF0708RA-272□
3300	$\pm 10, \pm 5\%$	30	0.252	1.4	34	33	59	ELF0708RA-332□
3900	$\pm 10, \pm 5\%$	30	0.252	1.3	38	30	56	ELF0708RA-392□
4700	$\pm 10, \pm 5\%$	30	0.252	1.2	44	28	52	ELF0708RA-472□
5600	$\pm 10, \pm 5\%$	30	0.252	1.1	51	25	49	ELF0708RA-562□
6800	$\pm 10, \pm 5\%$	30	0.252	0.97	59	23	45	ELF0708RA-682□
8200	$\pm 10, \pm 5\%$	30	0.252	0.9	68	21	42	ELF0708RA-822□
10000	$\pm 10, \pm 5\%$	25	0.001*2/0.0796*3	0.8	80	19	39	ELF0708RA-103□
12000	$\pm 10, \pm 5\%$	25	0.001/0.0796	0.75	92	17	36	ELF0708RA-123□
15000	$\pm 10, \pm 5\%$	25	0.001/0.0796	0.68	110	15	33	ELF0708RA-153□
18000	$\pm 10, \pm 5\%$	20	0.001/0.0796	0.6	120	14	30	ELF0708RA-183□
22000	$\pm 10, \pm 5\%$	20	0.001/0.0796	0.54	130	12	25	ELF0708RA-223□
27000	$\pm 10, \pm 5\%$	20	0.001/0.0796	0.48	160	11	20	ELF0708RA-273□
33000	$\pm 10, \pm 5\%$	20	0.001/0.0796	0.42	180	10	17	ELF0708RA-333□

*1□: Please specify inductance tolerance, K($\pm 10\%$), J($\pm 5\%$)

*2 for L

*3 for Q

- Test equipment L, Q: YHP4340A Q METER, or equivalent
SRF: TAKEDA RIKEN TR-4100 TRACKING SCOPE, or equivalent
Rdc: MATSUSHITA VP-2941A DIGITAL MILLIOHM METER, or equivalent



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Inductors (Coils)
Fixed
RF-frequency

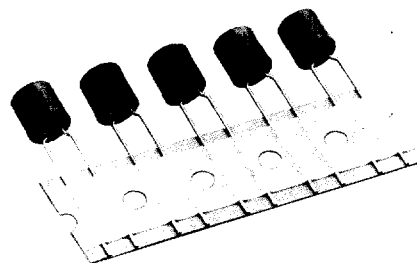
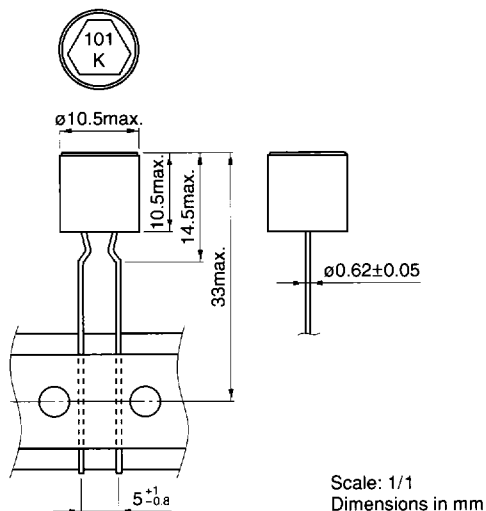
RADIAL LEADED INDUCTORS

Shielded

ELF series

ELF1010 TYPE (Ammo-pack taping style)

SHAPES AND DIMENSIONS



ELECTRICAL CHARACTERISTICS

Inductance (μ H)	Inductance tolerance	Q min.	Test frequency L, Q (MHz)	Self-resonant frequency (MHz)ref.	DC resistance (Ω)max.	Rated current (mA)max.		Part No.
						Based on Inductance change	Based on temperature rise	
100	$\pm 10, \pm 5\%$	50	796	4.7	0.66	580	425	ELF1010R-101□*1
120	$\pm 10, \pm 5\%$	50	796	4.2	0.73	530	405	ELF1010R-121□
150	$\pm 10, \pm 5\%$	50	796	3.8	0.81	470	430	ELF1010R-151□
180	$\pm 10, \pm 5\%$	50	796	3.5	0.89	430	365	ELF1010R-181□
220	$\pm 10, \pm 5\%$	50	796	3.1	0.98	390	350	ELF1010R-221□
270	$\pm 10, \pm 5\%$	50	796	2.8	1.05	350	340	ELF1010R-271□
330	$\pm 10, \pm 5\%$	50	796	2.6	1.15	320	325	ELF1010R-331□
390	$\pm 10, \pm 5\%$	50	796	2.4	1.5	290	285	ELF1010R-391□
470	$\pm 10, \pm 5\%$	50	796	2.2	1.65	270	270	ELF1010R-471□
560	$\pm 10, \pm 5\%$	40	796	2	1.9	245	250	ELF1010R-561□
680	$\pm 10, \pm 5\%$	40	796	1.8	2.2	220	235	ELF1010R-681□
820	$\pm 10, \pm 5\%$	40	796	1.6	2.6	200	215	ELF1010R-821□
1000	$\pm 10, \pm 5\%$	60	252	1.5	3	180	200	ELF1010R-102□
1200	$\pm 10, \pm 5\%$	60	252	1.4	3.4	170	190	ELF1010R-122□
1500	$\pm 10, \pm 5\%$	60	252	1.2	4	150	175	ELF1010R-152□
1800	$\pm 10, \pm 5\%$	60	252	1.1	4.6	135	160	ELF1010R-182□
2200	$\pm 10, \pm 5\%$	60	252	1	5.4	125	150	ELF1010R-222□
2700	$\pm 10, \pm 5\%$	60	252	0.9	6.9	110	130	ELF1010R-272□
3300	$\pm 10, \pm 5\%$	60	1*2/252*3	0.81	8.2	100	120	ELF1010R-332□
3900	$\pm 10, \pm 5\%$	60	1/252	0.75	11	92	105	ELF1010R-392□

*1□: Please specify inductance tolerance, K($\pm 10\%$), J($\pm 5\%$)

*2 for L

*3 for Q

• ELF1010 [100 μ H to 2.7mH] L, Q, Rdc, SRF is same as ELF0505, 0607, 0708.

ELF1010 [3.3mH to 100mH] L: LCR meter, MODEL 4261A YHP or its equivalent Q, Rdc, SRF is same as ELF0505, 0607, 0708.

• L measuring instrument differs from others because measurement frequency is 1 kHz.



Inductors (Coils)
Fixed
RF-frequency

RADIAL LEADED INDUCTORS

Shielded

ELF series

ELF1010 TYPE

ELECTRICAL CHARACTERISTICS

Inductance (μ H)	Inductance tolerance	Q min.	Test frequency L, Q (MHz)	Self-resonant frequency (MHz)ref.	DC resistance (Ω)max.	Rated current (mA)max.		Part No.
						Based on Inductance chang	Based on temperature rise	
4700	$\pm 10, \pm 5\%$	60	1*2/252*3	0.68	14	84	93	ELF1010R-472□*1
5600	$\pm 10, \pm 5\%$	60	1/252	0.63	19	77	79	ELF1010R-562□
6800	$\pm 10, \pm 5\%$	60	1/252	0.57	22	70	74	ELF1010R-682□
8200	$\pm 10, \pm 5\%$	60	1/252	0.52	25	63	69	ELF1010R-822□
10000	$\pm 10, \pm 5\%$	40	1/79.6	0.47	34	57	59	ELF1010R-103□
12000	$\pm 10, \pm 5\%$	40	1/79.6	0.43	38	53	56	ELF1010R-123□
15000	$\pm 10, \pm 5\%$	40	1/79.6	0.38	43	47	53	ELF1010R-153□
18000	$\pm 10, \pm 5\%$	40	1/79.6	0.34	47	43	51	ELF1010R-183□
22000	$\pm 10, \pm 5\%$	40	1/79.6	0.31	65	39	43	ELF1010R-223□
27000	$\pm 10, \pm 5\%$	40	1/79.6	0.28	74	35	40	ELF1010R-273□
33000	$\pm 10, \pm 5\%$	40	1/79.6	0.25	115	32	32	ELF1010R-333□
39000	$\pm 10, \pm 5\%$	40	1/79.6	0.23	125	29	31	ELF1010R-393□
47000	$\pm 10, \pm 5\%$	40	1/79.6	0.22	145	26	29	ELF1010R-473□
56000	$\pm 10, \pm 5\%$	40	1/79.6	0.2	190	24	25	ELF1010R-563□
68000	$\pm 10, \pm 5\%$	30	1/79.6	0.18	215	22	24	ELF1010R-683□
82000	$\pm 10, \pm 5\%$	30	1/79.6	0.17	290	20	20	ELF1010R-823□
100000	$\pm 10, \pm 5\%$	30	1/79.6	0.15	330	18	19	ELF1010R-104□

*1□: Please specify inductance tolerance, K($\pm 10\%$), J($\pm 5\%$)

*2 for L

*3 for Q

- ELF1010 [100 μ H to 2.7mH] L, Q, Rdc, SRF is same as ELF0505, 0607, 0708.
- ELF1010 [3.3mH to 100mH] L: LCR meter, MODEL 4261A YHP or its equivalent Q, Rdc, SRF is same as ELF0505, 0607, 0708.
- L measuring instrument differs from others because measurement frequency is 1 kHz.



Specifications which provide more details for the proper and safe use of the described product are available upon request.

All specifications are subject to change without notice.