

# EPOXY COATED INDUCTORS

## AL SERIES

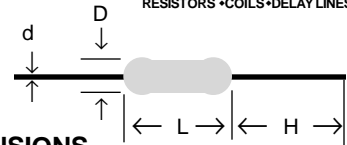
### FEATURES

- Widest selection in the industry!
- AL05 delivery from stock (E12 values 0.1 to 1000μH 10%)
- Premium grade materials enable increased current, SRF, Q, and temperature ratings.
- Low cost due to automated production.

### SPECIFICATIONS

Temperature Range	-55°C to +125°C
Insulation Resistance	1000 MΩ Min.
Dielectric Strength	500 VAC
Temp. Coef. of Inductance	+50 to +500ppm/°C Typ.

### DIMENSIONS



RCD Type	L	D	d	H
Type	±.06[1.5]	±.03[.76]	Typ.	Min.
AL02	.134[3.4]	.078[2.0]	.020[.50]	1.00[25.4]
AL03	.250[6.35]	.090[2.3]	.020[.50]	1.00[25.4]
AL05	.350[8.9]	.135[3.4]	.024[.6]	1.00[25.4]

Induc. (μH)	Test Freq. (MHz)	MODEL AL02				MODEL AL03				MODEL AL05			
		Q Min.	SRF Min. (MHz)	DCR Max. (Ω)	Rated Current (ma)	Q Min.	SRF Min. (MHz)	DCR Max. (Ω)	Rated Current (ma)	Q Min.	SRF Min. (MHz)	DCR Max. (Ω)	Rated Current (ma)
.10	25.2	35	450	.18	700	45	500	.08	1350	45	525	.03	2550
.12	25.2	35	450	.20	660	45	480	.09	1270	45	525	.03	2500
.15	25.2	35	450	.22	620	45	470	.10	1200	50	525	.03	2450
.18	25.2	35	450	.24	600	45	460	.12	1105	45	420	.05	1900
.22	25.2	35	450	.4	400	45	450	.14	1025	50	380	.055	1810
.27	25.2	35	410	.43	380	45	430	.16	960	45	370	.08	1500
.33	25.2	35	360	.48	370	45	410	.22	815	45	360	.09	1400
.39	25.2	35	300	.51	350	45	365	.30	700	45	320	.11	1300
.47	25.2	35	230	.56	330	45	330	.35	650	45	310	.12	1225
.56	25.2	35	210	.61	320	45	300	.50	545	50	280	.135	1150
.68	25.2	35	190	.67	310	45	275	.60	495	50	250	.15	1100
.82	25.2	35	170	.74	290	45	250	.85	415	50	220	.22	900
1.0	25.2	35	150	.80	270	45	230	1.00	385	50	200	.29	785
1.2	7.96	40	110	.90	260	45	160	.45	590	45	180	.42	650
1.5	7.96	40	80	1.0	250	45	140	.5	535	45	160	.50	600
1.8	7.96	40	60	1.1	240	45	120	.55	455	45	150	.65	525
2.2	7.96	40	45	1.2	230	45	110	.6	395	45	135	.95	435
2.7	7.96	40	40	1.3	220	45	95	.65	355	45	120	1.20	385
3.3	7.96	40	38	1.4	210	45	75	.85	270	45	110	2.00	300
3.9	7.96	40	35	1.6	200	45	65	1.00	250	45	100	2.30	280
4.7	7.96	40	32	1.7	190	45	56	1.20	230	45	90	2.60	260
5.6	7.96	40	30	1.9	180	50	48	1.80	185	45	74	.32	495
6.8	7.96	40	28	2.0	175	50	36	2.00	175	50	68	.50	395
8.2	7.96	40	26	2.2	165	55	25	2.70	155	50	53	.60	360
10	7.96	40	24	2.5	160	55	20	3.70	130	55	45	.90	290
12	2.52	40	22	2.5	150	45	18	2.70	155	60	34	1.10	265
15	2.52	40	20	2.8	145	45	15	2.80	150	60	20	1.40	240
18	2.52	40	18	3.1	140	50	12	3.10	145	60	14	2.25	185
22	2.52	40	17	3.4	130	50	10	3.30	140	60	9.9	2.50	175
27	2.52	40	16	4.3	80	50	9	3.50	135	60	7.6	2.60	170
33	2.52	40	14	4.7	76	45	8	3.5	130	60	6.5	3.00	165
36	2.52	40	13	5.0	75	45	7.7	3.6	127	60	6.5	2.50	180
39	2.52	40	13	5.2	74	45	7.5	3.6	125	60	6.5	2.60	176
43	2.52	40	12	5.5	72	45	7.2	4.1	117	60	6.4	2.70	172
47	2.52	40	12	5.8	70	45	7.0	4.5	110	55	6.3	2.75	170
51	2.52	40	11	6.1	69	45	6.7	5.1	105	55	6.2	2.85	167
56	2.52	40	11	6.4	68	45	6.5	5.7	100	55	6.2	3.00	164
62	2.52	40	10	6.8	66	45	6.2	6.2	96	55	5.9	3.15	160
68	2.52	40	10	7.2	64	50	6.0	6.7	92	55	5.7	3.30	156
75	2.52	40	9.5	9.5	55	50	5.7	7.0	90	55	5.5	3.70	147
82	2.52	40	9.5	11	46	50	5.5	7.3	88	50	5.3	3.90	143
91	2.52	40	9.2	11.5	45	50	5.2	7.7	86	50	5.0	4.30	136
100	2.52	40	9.0	12	44	50	5.0	8	84	50	4.8	4.50	133
110	.796	40	8.5	12.5	43	45	4.9	11	74	60	4.0	4.90	128
120	.796	40	8.0	13	42	45	4.8	13	66	60	3.8	5.20	124
130	.796	40	6.5	15	40	45	4.6	14	63	60	3.6	5.45	121
150	.796	40	6.0	16	39	45	4.5	15	61	60	3.5	6.05	114
160	.796	40	5.7	17	38	45	4.2	16	59	60	3.2	6.40	111
180	.796	40	5.5	18	37	45	4.0	17	57	60	3.0	6.75	108
200	.796	40	5.2	19	36	45	3.7	19	54	60	2.9	7.10	106
220	.796	40	5.0	20	35	45	3.5	21	52	60	2.8	7.45	103
240	.796	40	4.7	22	30	45	3.2	23	49	60	2.7	7.80	101
270	.796	40	4.6	25	28	45	3.0	25	47	60	2.6	11.0	129
300	.796	40	4.4	28	27	45	2.9	27	46	60	2.4	11.5	125
330	.796	40	4.2	30	26	45	2.8	28	45	60	2.4	12.0	123
360	.796	40	3.9	32	25	45	2.7	32	42	60	2.3	15.5	108
390	.796	40	3.8	34	25	45	2.6	35	40	60	2.3	16.3	105
430	.796	40	3.6	36	24	45	2.5	39	38	60	2.2	17.1	102
470	.796	40	3.5	38	24	45	2.4	42	36	60	2.2	17.9	100
510	.796	40			24	45	2.2	44	35	60	2.1	18.8	96
560	.796	40			25	45	2.0	46	35	60	2.1	24.7	85
620	.796	40			25	45	1.9	54	32	60	2.0	25.9	83
680	.796	40			25	45	1.8	60	30	55	1.9	27.2	81
750	.796	40			24	45	1.7	63	29	55	1.9	28.6	79
820	.796	40			24	45	1.6	65	29	55	1.8	30.0	77
910	.796	40			24	45	1.5	69	28	55	1.5	31.5	76
1000	.796	40			24	45	1.4	72	28	55	1.4	33.5	74
1100	.252	30								30	1.3	43.5	64
1200	.252	30								30	1.2	45.7	63
1300	.252	30								30	1.1	49.0	61
1500	.252	30								30	1.0	52.5	59
1600	.252	30								30	1.0	54.0	58
1800	.252	30								30	1.0	56.7	56
2200	.252	30								30	1.0	58.0	46

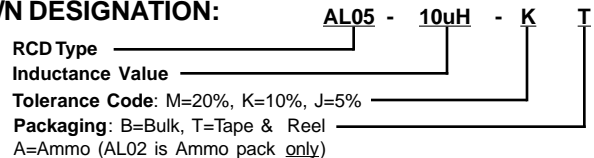
### OPTIONS

- Improved Q levels.
- Increased current ratings.
- Elevated SRF.
- Matching to 1% tolerance.
- Tailored resistance values.

### MARKING

AL03 and AL05 are marked with 4 bands. AL02 is marked with 3 bands (two significant digits and a multiplier), AL02s are not marked with tolerance bands.

### P/N DESIGNATION:



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FAxxxx specifications subject to change