

# EPOXY COATED INDUCTORS

New Sub-Mini Size AL02

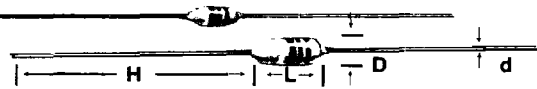


## AL SERIES

- Widest selection in the industry!
- AL05 delivery from stock (refer to p. 4)
- Premium grade materials enable increased current, SRF, Q, and temperature ratings
- Low cost due to automated production

### SPECIFICATIONS

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



RCD Type	L ±.06 [1.5]	D ±.03 [.76]	d TYP	H 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]

IND. (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
10	25.2	35	150	80	270	45	230	1.00	385	50	200	29	785
12	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
18	7.96	40	60	1.1	240	45	120	5.5	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	6.5	355	45	120	120	385
3.3	7.96	40	38	1.4	210	45	75	8.5	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	7.96	40	8.5	12.5	43	45	4.9	11	74	60	4.0	4.90	128
120	7.96	40	8.0	13	42	45	4.8	13	66	60	3.8	5.20	124
130	7.96	40	6.5	15	40	45	4.6	14	63	60	3.6	5.45	121
150	7.96	40	6.0	16	39	45	4.5	15	61	60	3.5	6.05	114
160	7.96	40	5.7	17	38	45	4.2	16	59	60	3.2	6.40	111
180	7.96	40	5.5	18	37	45	4.0	17	57	60	3.0	6.75	108
200	7.96	40	5.2	19	36	45	3.7	19	54	60	2.9	7.10	106
220	7.96	40	5.0	20	35	45	3.5	21	52	60	2.8	7.45	103
240	7.96	40	4.7	22	30	45	3.2	23	49	60	2.7	7.80	101
270	7.96	40	4.6	25	28	45	3.0	25	47	60	2.6	11.0	129
300	7.96	40	4.4	28	27	45	2.9	27	46	60	2.4	11.5	125
330	7.96	40	4.2	30	26	45	2.8	28	45	60	2.4	12.0	123
360	7.96	40	3.9	32	25	45	2.7	32	42	60	2.3	15.5	108
390	7.96	40	3.8	34	25	45	2.6	35	40	60	2.3	16.3	105
430	7.96	40	3.6	36	24	45	2.5	39	38	60	2.2	17.1	102
470	7.96	40	3.5	38	24	45	2.4	42	36	60	2.2	17.9	100
510	7.96	40				45	2.2	44	35	60	2.1	18.8	96
560	7.96					45	2.0	46	35	60	2.1	24.7	85
620	7.96					45	1.9	54	32	60	2.0	25.9	83
680	7.96					45	1.8	60	30	55	1.9	27.2	81
750	7.96					45	1.7	63	29	55	1.9	28.6	79
820	7.96					45	1.6	65	29	55	1.8	30.0	77
910	7.96					45	1.5	69	28	55	1.5	31.5	76
1000	7.96					45	1.4	72	28	55	1.4	33.1	74
1100	252									30	1.3	43.5	64
1200	252									30	1.2	45.7	63
1300	252									30	1.1	49.0	61
1500	252									30	1.0	52.5	59
1600	252									30	1.0	54.0	58
1800	252									30	1.0	56.7	56
2200	252									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 (refer to p. 9). AL02 is marked with 3-bands (two significant digits and a multiplier), AL02s are not marked with tolerance band.

### HOW TO ORDER

RCD Type AL05 Inductance Value 10 μH Tolerance Code (M = 20%, K = 10%, J = 5%) 10% Packaging: 'B' Bulk, 'T' Tape & Reel T  
(RCD option if not specified by customer)

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