

# EPOXY COATED INDUCTORS

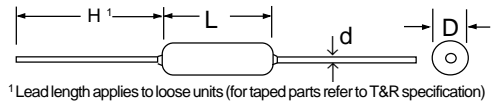
## AL SERIES



Term. W is  
RoHS  
compliant  
& 260°C  
compatible



RESISTORS • CAPACITORS • COILS • DELAY LINES



- Widest selection in the industry!
- Delivery typically from stock
- Premium grade materials enable high current, SRF, Q, and temperature ratings
- Low cost due to automated production

Temperature Range	-25°C to +105°C
Insulation Resistance	1000 M $\Omega$ Min.
Dielectric Strength	500 VAC
TCof Inductance (typ)	+50 to +500ppm/°C

RCD Type	L $\pm 0.04$ [1]	D $\pm 0.03$ [7.6]	d Typ.	H <sup>1</sup> Min.
AL02	.125 [3.2]	.078 [2.0]	.020 [5.0]	.94 [24]
AL03	.250 [6.3]	.090 [2.3]	.020 [5.0]	1.0 [25.4]
AL05	.350 [8.9]	.135 [3.4]	.025 [6.4]	1.0 [25.4]

Induc. ( $\mu$ H)	Induc. code	Test Freq. (MHz)	MODEL AL02				MODEL AL03				MODEL AL05			
			Q Min.	SRF (MHz)	DCR Max. ( $\Omega$ )	Rated DC* Current (mA)	Q Min.	SRF (MHz)	DCR Max. ( $\Omega$ )	Rated DC* Current (mA)	Q Min.	SRF (MHz)	DCR Max. ( $\Omega$ )	Rated DC* Current (mA)
.10	R10	25.2	35	450	.18	700	45	500	.08	1350	50	525	.06	2000
.12	R12	25.2	35	450	.20	660	45	480	.09	1270	50	525	.06	1800
.15	R15	25.2	35	450	.22	620	45	470	.10	1200	50	525	.07	1650
.18	R18	25.2	35	450	.24	600	45	460	.12	1105	45	420	.07	1600
.22	R22	25.2	35	450	.4	400	45	450	.14	1025	50	380	.08	1400
.27	R27	25.2	35	410	.43	380	45	410	.16	960	45	370	.09	1320
.33	R33	25.2	35	360	.48	370	45	360	.22	815	45	360	.10	1280
.39	R39	25.2	35	300	.51	350	45	310	.30	700	45	320	.12	1200
.47	R47	25.2	35	230	.56	330	45	300	.35	650	45	310	.13	1150
.56	R56	25.2	35	210	.61	320	45	280	.50	545	50	280	.14	1100
.68	R68	25.2	35	190	.67	310	45	200	.60	495	50	250	.16	1030
.82	R82	25.2	35	170	.74	290	45	180	.70	415	50	220	.17	980
1.0	1R0	25.2	35	150	.80	270	45	230	.72	385	50	200	.18	920
1.2	1R2	7.96	40	110	.90	260	45	160	.75	590	50	180	.19	880
1.5	1R5	7.96	40	80	1.0	250	45	140	.76	535	50	160	.21	830
1.8	1R8	7.96	40	60	1.1	240	45	120	.77	455	50	150	.23	790
2.2	2R2	7.96	40	45	1.2	230	45	110	.60	395	50	135	.25	750
2.7	2R7	7.96	40	40	1.3	220	45	95	.65	355	60	120	.27	720
3.3	3R3	7.96	40	38	1.4	210	45	75	.85	270	60	110	.32	670
3.9	3R9	7.96	40	35	1.6	200	45	65	1.00	250	60	100	.36	640
4.7	4R7	7.96	40	32	1.7	190	45	56	1.20	230	70	90	.40	620
5.6	5R6	7.96	40	30	1.9	180	50	48	1.80	185	70	74	.45	590
6.8	6R8	7.96	40	28	2.0	175	50	36	2.00	175	70	68	.50	550
8.2	8R2	7.96	40	26	2.2	165	50	25	2.70	165	80	53	.60	530
10	10	7.96	40	24	2.5	160	50	20	3.70	160	80	45	.65	500
12	120	2.52	40	22	2.5	150	45	18	2.70	155	60	34	.70	480
15	150	2.52	40	20	2.8	145	45	15	2.80	150	60	20	.75	460
18	180	2.52	40	18	3.1	140	50	12	3.10	145	60	14	.80	430
22	220	2.52	40	17	3.4	130	50	10	3.30	140	60	9.9	.90	410
27	270	2.52	40	16	4.3	80	50	9	3.50	135	55	7.6	1.00	390
33	330	2.52	40	14	4.7	76	45	8	3.5	130	55	6.5	1.10	370
36	360	2.52	40	13	5.0	75	45	7.7	3.6	127	50	6.5	1.15	360
39	390	2.52	40	13	5.2	74	45	7.5	3.6	125	50	6.5	1.20	350
43	430	2.52	40	12	5.5	72	45	7.2	4.1	117	45	6.4	1.25	345
47	470	2.52	40	12	5.8	70	50	7.0	4.5	110	45	6.3	1.30	340
51	510	2.52	40	11	6.1	69	50	6.7	5.1	105	45	6.2	1.40	330
56	560	2.52	40	11	6.4	68	50	6.5	5.7	105	45	6.2	1.50	320
62	620	2.52	40	10	6.8	66	50	6.2	6.2	100	40	5.9	1.70	310
68	680	2.52	40	10	7.2	64	50	6.0	6.7	100	40	5.7	1.80	305
75	750	2.52	40	9.5	9.5	55	50	5.7	7.0	95	40	5.5	1.90	295
82	820	2.52	40	9.5	11	46	50	5.5	7.3	95	35	5.3	2.00	290
91	910	2.52	40	9.2	11.5	45	50	5.2	7.7	93	35	5.0	2.30	280
100	101	2.52	40	9.0	12	44	50	5.0	8	90	30	4.8	2.50	275
110	111	.796	40	8.5	12.5	43	45	4.9	11	90	60	4.0	3.10	200
120	121	.796	40	8.0	13	42	45	4.8	13	90	60	3.8	3.70	185
130	131	.796	40	6.5	15	40	45	4.6	14	87	60	3.6	4.00	180
150	151	.796	40	6.0	16	39	45	4.5	15	85	60	3.5	4.20	175
160	161	.796	40	5.7	17	38	45	4.2	16	83	60	3.2	4.40	170
180	181	.796	40	5.5	18	37	45	4.0	17	80	60	3.0	4.60	165
200	201	.796	40	5.2	19	36	45	3.7	19	77	60	2.9	4.90	160
220	221	.796	40	5.0	20	35	45	3.5	21	75	60	2.8	5.1	155
240	241	.796	40	4.7	22	30	45	3.2	23	70	60	2.7	5.6	150
270	271	.796	40	4.6	25	28	45	3.0	25	65	60	2.6	6.0	145
300	301	.796	40	4.4	28	27	45	2.9	27	63	60	2.4	6.3	140
330	331	.796	40	4.2	30	26	45	2.8	28	60	60	2.4	6.5	137
360	361	.796	40	3.9	32	25	45	2.7	32	57	60	2.3	7.0	135
390	391	.796	40	3.8	34	25	45	2.6	35	55	60	2.3	7.5	133
430	431	.796	40	3.6	36	24	45	2.5	39	55	60	2.2	8.0	129
470	471	.796	40	3.5	38	24	45	2.4	42	55	60	2.2	8.5	126
510	511	.796	40				45	2.2	44	52	60	2.1	9.0	123
560	561	.796					45	2.0	46	50	60	2.1	9.5	120
620	621	.796					45	1.9	54	47	60	2.0	11	117
680	681	.796					45	1.8	60	45	55	1.9	12	113
750	751	.796					45	1.7	63	42	55	1.9	13	109
820	821	.796					45	1.6	65	40	55	1.8	14	105
910	911	.796					45	1.5	69	40	55	1.5	18	95
1000	102	.796					45	1.4	72	40	50	1.4	20	85
1100	112	.252									30	1.3	30	64
1200	122	.252									30	1.2	40	63
1300	132	.252									30	1.1	49	61
1500	152	.252									30	1.0	52	59
1600	162	.252									30	1.0	54	58
1800	182	.252									30	1.0	56	56
2200	222	.252									30	1.0	58	46

\* Current rating is based on ambient temp of 90°C or less, derate 4%/°C above 90°C

### OPTIONS

- Improved Q & SRF levels
- Increased current & temp ratings
- Reduced DC Resistance
- Non-magnetic construction (opt.Y)
- Inductance testing at 1KHz (opt.55)

### MARKING

Units are color banded with inductance value and tolerance (except AL02 which is typically not marked with tolerance band).

### P/N DESIGNATION:

RCD Type **AL05** - **101** - **K** **T** **W**  
 Options: Y, 55 (leave blank if std)  
 Inductance ( $\mu$ H): 2 digits & multiplier (R10=0.1 $\mu$ H, 1R0=1 $\mu$ H, 100= 10 $\mu$ H)  
 Tolerance Code: K=10% (standard), M=20%, J=5%  
 Packaging: B=Bulk, T=T&R, A=Ammo; AL02 only avail. as Ammo or cut Ammo (B)  
 Termination: W = Lead-free, Q = Tin/Lead (leave blank if either is acceptable)

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