

EPOXY COATED INDUCTORS

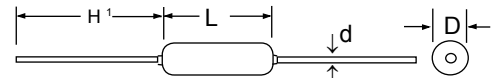
AL SERIES



Term.W
is RoHS
compliant
& 260°C
compatible



RESISTORS • CAPACITORS • COILS • DELAY LINES



¹ Lead length applies to loose units (for taped parts refer to T&R)

- Low cost, delivery typically from stock
- Wide selection (0.1uH to 10,000uH)
- Premium grade materials enable high current, SRF, Q, and temperature ratings
- Numerous design options available: non-std values, increased SRF, Q, current, etc.

Temp Range (incl self heating)	-55°C TO +125°C
Insulation Resistance	1000MEG MIN
Dielectric Strength	500V
TC of Induc (PPM/°C)	+50 TO +500PPM

RCD Type	L ±.04 [1]	D ±.03 [.76]	d Typ.	H' Min.
AL02	.125 [3.2]	.078 [2.0]	.020 [.50]	.94 [24]
AL03	.250 [6.3]	.090 [2.3]	.020 [.50]	1.0 [25.4]
AL05	.350 [8.9]	.135 [3.4]	.025 [.64]	1.0 [25.4]

Induc. (uH)	Induc. code	Test Freq. (MHz)	MODEL AL02				MODEL AL03				MODEL AL05			
			Q Min.	SRF (MHz)	DCR Max. (Ω)	Rated DC** Current (mA)	Q Min.	SRF (MHz)	DCR Max. (Ω)	Rated DC** Current (mA)	Q Min.	SRF (MHz)	DCR Max. (Ω)	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	45	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	100	7.96	40	24	2.5	160	50	20	3.70	160	65	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	7.96	40	8.5	12.5	43	45	4.9	11	90	60	4.0	3.10	200
120	121	7.96	40	8.0	13	42	45	4.8	13	90	60	3.8	3.70	185
130	131	7.96	40	6.5	15	40	45	4.6	14	87	60	3.6	4.00	180
150	151	7.96	40	6.0	16	39	45	4.5	15	85	60	3.5	4.20	175
160	161	7.96	40	5.7	17	38	45	4.2	16	83	60	3.2	4.40	170
180	181	7.96	40	5.5	18	37	45	4.0	17	80	60	3.0	4.60	165
200	201	7.96	40	5.2	19	36	45	3.7	19	77	60	2.9	4.90	160
220	221	7.96	40	5.0	20	35	45	3.5	21	75	60	2.8	5.1	155
240	241	7.96	40	4.7	22	30	45	3.2	23	70	60	2.7	5.6	150
270	271	7.96	40	4.6	25	28	45	3.0	25	65	60	2.6	6.0	145
300	301	7.96	40	4.4	28	27	45	2.9	27	63	60	2.4	6.3	140
330	331	7.96	40	4.2	30	26	45	2.8	28	60	60	2.4	6.5	137
360	361	7.96	40	3.9	32	25	45	2.7	32	57	60	2.3	7.0	135
390	391	7.96	40	3.8	34	25	45	2.6	35	55	60	2.3	7.5	133
430	431	7.96	40	3.6	36	24	45	2.5	39	55	60	2.2	8.0	129
470	471	7.96	40	3.5	38	24	45	2.4	42	55	60	2.2	8.5	126
510	511	7.96	40				45	2.2	44	52	60	2.1	9.0	123
560	561	7.96					45	2.0	46	50	60	2.1	9.5	120
620	621	7.96					45	1.9	54	47	60	2.0	11	117
680	681	7.96					45	1.8	60	45	55	1.9	12	113
750	751	7.96					45	1.7	63	42	55	1.9	13	109
820	821	7.96					45	1.6	65	40	55	1.8	14	105
910	911	7.96					45	1.5	69	40	55	1.5	18	95
1000	102	7.96					45	1.4	72	40	50	1.4	20	85
1100	112	25.2									30	1.3	30	64
1200	122	25.2									30	1.2	40	63
1300	132	25.2									30	1.1	49	61
1500	152	25.2									30	1.0	52	59
1600	162	25.2									30	1.0	54	58
1800	182	25.2									30	1.0	56	56
2200*	222	25.2									30	1.0	58	46

* Up to 10,000uH available on AL05 size **Current rating is based on ambient temp of 90°C or less (body temp typically increases 20°C and inductance drops approx 10% at rated current)

OPTIONS

- Improved Q & SRF levels
- Increased current & temp ratings
- Cut and formed leadwires
- 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(uH): 2digits & multiplier (R10=0.1uH, 1R0=1uH, 100=10uH)
 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)