

FIXED INDUCTORS / AL TYPE

FEATURES

- ◆ Coating epoxy resin that ensures the humidity resistance to be long lift.
- ◆ Contribute to be high Q and self-resonant frequencies.



APPLICATIONS

- ◆ Communication modules.
- ◆ Computing devices.
- ◆ Various categories of consumer electronics.

ORDERING CODE

AL	0204	-6R8	□	
				Tolerance (J:±5%, K:±10%, M:±20%)
				Inductance
				Dimension
				Product Symbol

SHAPES & DIMENSIONS (UNIT: mm)

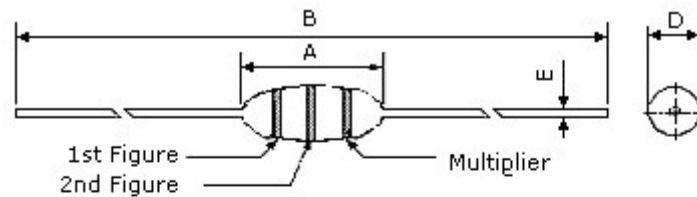


Fig. 1

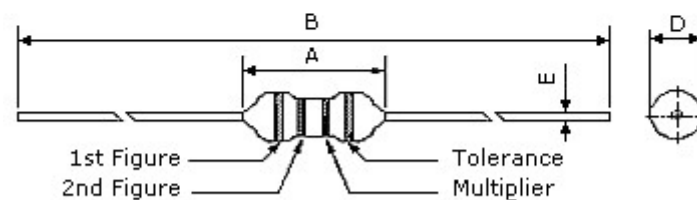


Fig. 2

Part No.	Fig.	A (Max)	B (±2.0)	D (Max)	E (±0.05)
AL 0204	1	4	62	3	0.55
AL 0307	2	8	62	3	0.55
AL 0410	2	12	62	4	0.65
AL 0510	2	12	62	5	0.65



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ELECTRICAL CHARACTERISTICS FOR AL0204

Part No.	Inductance (μ H)	Quality Factor (Min)	Test Freq. (MHz)	SRF (MHz) Min	DCR (Ω) Max	IDC (mA) Max
AL 0204-1R0 K	1.0	35	25.2	150	0.80	270
AL 0204-1R2 K	1.2	40	7.96	110	0.90	260
AL 0204-1R5 K	1.5	40	7.96	70	1.00	250
AL 0204-1R8 K	1.8	40	7.96	60	1.10	240
AL 0204-2R2 K	2.2	40	7.96	45	1.20	230
AL 0204-2R7 K	2.7	40	7.96	40	1.30	220
AL 0204-3R3 K	3.3	40	7.96	38	1.40	210
AL 0204-3R9 K	3.9	40	7.96	36	1.50	200
AL 0204-4R7 K	4.7	40	7.96	32	1.70	190
AL 0204-5R6 K	5.6	40	7.96	30	1.90	180
AL 0204-6R8 K	6.8	40	7.96	28	2.00	175
AL 0204-8R2 K	8.2	40	7.96	26	2.20	165
AL 0204-100 K	10	40	7.96	24	2.50	160
AL 0204-120 K	12	40	2.52	22	2.5	150
AL 0204-150 K	15	40	2.52	20	2.8	145
AL 0204-180 K	18	40	2.52	18	3.1	140
AL 0204-220 K	22	40	2.52	17	3.4	130
AL 0204-270 K	27	40	2.52	16	4.3	80
AL 0204-330 K	33	40	2.52	14	4.7	76
AL 0204-390 K	39	40	2.52	13	5.2	76
AL 0204-470 K	47	40	2.52	12	5.8	70
AL 0204-560 K	56	40	2.52	11	6.4	68
AL 0204-680 K	68	40	2.52	10	7.2	64
AL 0204-820 K	82	40	2.52	9.5	11	46
AL 0204-101 K	100	40	2.52	9.0	12	44
AL 0204-121 K	120	40	0.796	8.0	13	42
AL 0204-151 K	150	40	0.796	6.0	16	39
AL 0204-221 K	220	40	0.796	5.6	20	35
AL 0204-271 K	270	40	0.796	4.6	25	28
AL 0204-331 K	330	40	0.796	4.2	30	26
AL 0204-391 K	390	40	0.796	3.8	34	25
AL 0204-471 K	470	40	0.796	2.6	35	24
AL 0204-561 K	560	40	0.796	2.5	40	23
AL 0204-681 K	680	40	0.796	2.2	42	22
AL 0204-821 K	820	40	0.796	2.1	46	21
AL 0204-102 K	1000	40	0.796	2.0	52	20



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FIXED INDUCTORS / AL TYPE

ELECTRICAL CHARACTERISTICS FOR AL0307

Part No.	Inductance (uH)	Quality Factor (Min)	Test Freq. (MHz)	SRF (MHz) Min	DCR (Ω) Max	IDC (mA) Max
AL 0307-1R0 K	1.0	40	25.2	180	0.15	700
AL 0307-1R2 K	1.2	40	7.96	165	0.18	740
AL 0307-1R5 K	1.5	40	7.96	150	0.20	700
AL 0307-1R8 K	1.8	50	7.96	125	0.23	655
AL 0307-2R2 K	2.2	50	7.96	110	0.25	630
AL 0307-2R7 K	2.7	50	7.96	95	0.28	595
AL 0307-3R3 K	3.3	50	7.96	70	0.30	575
AL 0307-3R9 K	3.9	50	7.96	65	0.32	555
AL 0307-4R7 K	4.7	50	7.96	50	0.35	530
AL 0307-5R6 K	5.6	50	7.96	40	0.40	500
AL 0307-6R8 K	6.8	50	7.96	30	0.45	470
AL 0307-8R2 K	8.2	50	7.96	28	0.56	425
AL 0307-100 K	10	50	7.96	22	0.75	370
AL 0307-120 K	12	50	2.52	20	0.80	350
AL 0307-150 K	15	50	2.52	16	0.93	335
AL 0307-180 K	18	50	2.52	15	1.00	315
AL 0307-220 K	22	50	2.52	13	1.20	285
AL 0307-270 K	27	50	2.52	11	1.80	270
AL 0307-330 K	33	50	2.52	10	2.10	255
AL 0307-390 K	39	50	2.52	9.5	2.30	240
AL 0307-470 K	47	50	2.52	8.5	2.60	205
AL 0307-560 K	56	50	2.52	7.5	2.90	195
AL 0307-680 K	68	50	2.52	6.5	3.30	185
AL 0307-820 K	82	50	2.52	6.0	3.80	175
AL 0307-101 K	100	50	2.52	5.5	4.20	165
AL 0307-121 K	120	60	0.796	5.4	4.70	160
AL 0307-151 K	150	60	0.796	4.7	5.40	150
AL 0307-181 K	180	60	0.796	4.3	6.00	140
AL 0307-221 K	220	60	0.796	4.0	7.00	130
AL 0307-271 K	270	60	0.796	3.7	7.70	120
AL 0307-331 K	330	60	0.796	3.4	11.1	100
AL 0307-391 K	390	60	0.796	2.8	12.6	95
AL 0307-471 K	470	60	0.796	2.5	14.0	90
AL 0307-561 K	560	60	0.796	2.3	15.5	85
AL 0307-681 K	680	60	0.796	2.0	25.3	75
AL 0307-821 K	820	60	0.796	1.5	27.5	65
AL 0307-102 K	1000	50	0.796	1.2	31.4	60



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FIXED INDUCTORS / AL TYPE

ELECTRICAL CHARACTERISTICS FOR AL0410

Part No.	Inductance (uH)	Quality Factor (Min)	Test Freq. (MHz)	SRF (MHz) Min	DCR (Ω) Max	IDC (mA) Max
AL 0410-1R0 K	1.0	45	25.2	157	0.17	920
AL 0410-1R2 K	1.2	50	7.96	144	0.18	880
AL 0410-1R5 K	1.5	50	7.96	131	0.20	830
AL 0410-1R8 K	1.8	55	7.96	121	0.22	790
AL 0410-2R2 K	2.2	55	7.96	110	0.24	750
AL 0410-2R7 K	2.7	60	7.96	100	0.25	720
AL 0410-3R3 K	3.3	65	7.96	94	0.30	670
AL 0410-3R9 K	3.9	65	7.96	86	0.35	640
AL 0410-4R7 K	4.7	70	7.96	80	0.40	620
AL 0410-5R6 K	5.0	70	7.96	74	0.45	590
AL 0410-6R8 K	6.8	75	7.96	68	0.50	550
AL 0410-8R2 K	8.2	80	7.96	53	0.60	530
AL 0410-100 K	10	80	7.96	45	0.65	500
AL 0410-120 K	12	75	2.52	34	0.70	480
AL 0410-150 K	15	70	2.52	20	0.75	460
AL 0410-180 K	18	65	2.52	14	0.80	430
AL 0410-220 K	22	50	2.52	9.9	0.90	410
AL 0410-270 K	27	55	2.52	7.6	1.00	390
AL 0410-330 K	33	55	2.52	6.3	1.10	370
AL 0410-390 K	39	50	2.52	6.3	1.20	350
AL 0410-470 K	47	45	2.52	6.3	1.30	340
AL 0410-560 K	56	40	2.52	6.2	1.50	320
AL 0410-680 K	68	40	2.52	5.7	1.80	305
AL 0410-820 K	82	35	2.52	5.3	2.00	290
AL 0410-101 K	100	30	2.52	4.8	2.50	275
AL 0410-121 K	120	70	0.796	3.8	3.00	185
AL 0410-151 K	150	70	0.796	3.5	4.20	175
AL 0410-181 K	180	70	0.796	3.3	4.60	165
AL 0410-221 K	220	70	0.796	3.0	5.10	155
AL 0410-271 K	270	65	0.796	2.8	6.00	145
AL 0410-331 K	330	65	0.796	2.6	6.50	137
AL 0410-391 K	390	65	0.796	2.4	7.50	133
AL 0410-471 K	470	60	0.796	2.2	8.50	126
AL 0410-561 K	560	60	0.796	2.1	9.50	120
AL 0410-681 K	680	55	0.796	1.9	12	113
AL 0410-821 K	820	55	0.796	1.8	14	105
AL 0410-102 K	1000	50	0.796	1.4	20	85



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FIXED INDUCTORS / AL TYPE

ELECTRICAL CHARACTERISTICS FOR AL0510

Part No.	Inductance (uH)	Quality Factor (Min)	Test Freq. (MHz)	SRF (MHz) Min	DCR (Ω) Max	IDC (mA) Max
AL 0510-102 K	1000	80	252	1.30	8	120
AL 0510-122 K	1200	80	252	1.30	9	110
AL 0510-152 K	1500	80	252	1.30	10	100
AL 0510-182 K	1800	80	252	1.20	11	90
AL 0510-222 K	2200	80	252	1.10	14	80
AL 0510-272 K	2700	80	252	0.85	18	75
AL 0510-332 K	3300	80	252	0.74	22	65
AL 0510-392 K	3900	80	252	0.70	26	60
AL 0510-472 K	4700	80	252	0.66	32	55
AL 0510-562 K	5600	70	252	0.64	34	50
AL 0510-682 K	6800	70	252	0.58	45	45
AL 0510-822 K	8200	50	252	0.50	60	40
AL 0510-103 K	10000	50	252	0.48	70	38
AL 0510-123 K	12000	50	252	0.46	82	35
AL 0510-153 K	15000	50	252	0.40	89	32
AL 0510-183 K	18000	40	79.6	0.37	140	28
AL 0510-223 K	22000	40	79.6	0.33	170	25
AL 0510-273 K	27000	40	79.6	0.28	210	23
AL 0510-303 K	30000	40	79.6	0.26	240	22
AL 0510-333 K	33000	40	79.6	0.25	250	20
AL 0510-393 K	39000	40	79.6	0.24	270	16



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