

# THRU-HOLE AXIAL CONFORMAL COATED INDUCTORS

## AICC-00, AICC-01 SERIES



### FEATURES:

- Ferrite core with epoxy resin
- Wire wound construction

### OPTIONS:

- Bulk Pack is standard
- Ammo Pack available

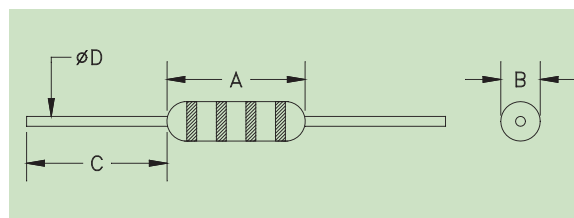
### APPLICATIONS:

- Electronic Appliance
- Automotive system

### STANDARD SPECIFICATIONS:

Part Number AICC-00	L (μH)	Q Min	L.Q Test Freq (MHz)	SRF Min (MHz)	R <sub>DC</sub> Max (Ω)	I <sub>DC</sub> Max (mA)
R22K	0.22	35	25.2	150	0.40	400
R27K	0.27	35	25.2	150	0.45	380
R33K	0.33	35	25.2	150	0.48	370
R39K	0.39	35	25.2	150	0.51	350
R47K	0.47	35	25.2	150	0.56	330
R56K	0.56	35	25.2	150	0.61	320
R68K	0.68	35	25.2	150	0.67	310
R82K	0.82	35	25.2	150	0.74	290
1R0J	1.0	35	25.2	150	0.80	270
1R2J	1.2	40	7.96	110	0.90	260
1R5J	1.5	40	7.96	80	1.0	250
1R8J	1.8	40	7.96	60	1.1	240
2R2J	2.2	40	7.96	45	1.2	230
2R7J	2.7	40	7.96	40	1.3	220
3R3J	3.3	40	7.96	38	1.4	210
3R9J	3.9	40	7.96	35	1.6	200
4R7J	4.7	40	7.96	32	1.7	190
5R6J	5.6	40	7.96	30	1.9	180
6R8J	6.8	40	7.96	28	2.0	170
8R2J	8.2	40	7.96	26	2.2	165
100J	10	40	7.96	24	2.5	160
120J	12	40	2.52	22	2.5	150
150J	15	40	2.52	20	2.8	145
180J	18	40	2.52	18	3.1	140
220J	22	40	2.52	17	3.4	130
270J	27	40	2.52	16	4.3	80
330J	33	40	2.52	14	4.7	76
390J	39	40	2.52	13	5.2	74
470J	47	40	2.52	12	5.8	70
560J	56	40	2.52	11	6.4	65
680J	68	40	2.52	10	8.2	64
820J	82	40	2.52	9.5	11	46
101J	100	40	2.52	9.0	12	44
121J	120	40	0.796	8.0	13	42
151J	150	40	0.796	6.0	16	39
181J	180	40	0.796	5.5	18	37
221J	220	40	0.796	5.0	20	35

### PHYSICAL CHARACTERISTICS:



### TECHNICAL INFORMATION:

- Operating Temperature: -25°C to +105°C
- Storage Temperature: -40°C to +125°C
- Marking EIA 4 band color code
- Tolerance: J=±5%, K=±10%
- Letter suffix indicates standard tolerance
- Check SCD for detail E&M specification

**Note:** All specifications subject to change without notice

	AICC-00	AICC-01
A Max	0.160 (4,06)	0.280 (7,11)
B Max	0.100 (2,54)	0.120 (3,05)
C Typ	1.15 (29,2)	1.15 (29,2)
D	0.020 (0,51)	0.020 (0,51)

# THRU-HOLE AXIAL CONFORMAL COATED INDUCTORS

AICC-00, AICC-01 SERIES



➤ STANDARD SPECIFICATIONS (continued):

Part Number AICC-01	L (μH)	Q Min	L.Q Test Freq (MHz)	SRF Min (MHz)	R <sub>DC</sub> Max (Ω)	I <sub>DC</sub> Max (mA)
R22K	0.22	35	25.2	150	0.40	400
R27K	0.27	35	25.2	150	0.43	380
R33K	0.33	35	25.2	150	0.48	370
R39K	0.39	35	25.2	150	0.51	350
R47K	0.47	35	25.2	150	0.56	330
R56K	0.56	40	25.2	150	0.61	320
R68K	0.68	40	25.2	150	0.67	310
R82K	0.82	40	25.2	150	0.74	290
1R0J	1.0	40	25.2	150	0.80	270
1R2J	1.2	50	7.96	144	0.90	260
1R5J	1.5	50	7.96	131	1.0	250
1R8J	1.8	50	7.96	121	1.1	240
2R2J	2.2	50	7.96	110	1.2	230
2R7J	2.7	50	7.96	100	1.3	220
3R3J	3.3	50	7.96	94	1.4	210
3R9J	3.9	50	7.96	65	1.6	200
4R7J	4.7	50	7.96	56	1.7	190
5R6J	5.6	50	7.96	48	1.9	180
6R8J	6.8	50	7.96	37	2.0	170
8R2J	8.2	50	7.96	25	2.2	165
100J	10	50	7.96	21	2.5	160
120J	12	50	2.52	19	2.5	150
150J	15	50	2.52	17	2.8	145
180J	18	50	2.52	13	3.1	140
220J	22	50	2.52	9.6	3.4	130
270J	27	50	2.52	7.2	3.8	125
330J	33	50	2.52	6.3	4.1	120
390J	39	50	2.52	6.3	4.5	115
470J	47	50	2.52	6.3	4.9	110
560J	56	50	2.52	6.2	5.3	105
680J	68	50	2.52	5.7	5.8	100
820J	82	50	2.52	5.3	6.3	95
101J	100	50	2.52	4.8	7	90
121J	120	50	0.796	3.8	13	90
151J	150	50	0.796	3.5	15	85
181J	180	50	0.796	3.3	16	80
221J	220	50	0.796	3.0	17	75
271J	270	50	0.796	2.8	19	65
331J	330	50	0.796	2.6	20	60
391J	390	50	0.796	2.4	22	55
471J	470	50	0.796	2.3	24	55
561J	560	50	0.796	2.1	26	50
681J	680	50	0.796	2.0	28	45
821J	820	50	0.796	1.9	30	40
102J	1000	50	0.796	1.4	33	40

# THRU-HOLE AXIAL CONFORMAL COATED INDUCTORS

## AICC-02, AICC-03 SERIES



### FEATURES:

- Ferrite core with epoxy resin
- Wire wound construction

### OPTIONS:

- Bulk Pack is standard
- Ammo Pack available

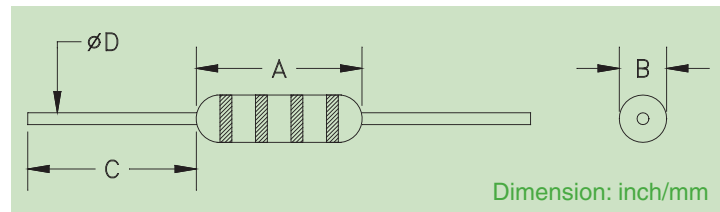
### APPLICATIONS:

- Electronic Appliance
- Automotive system

### STANDARD SPECIFICATIONS:

Part Number AICC-02	L(μH)	Q Min	L.Q Test Freq (MHz)	SRF Min (MHz)	R <sub>DC</sub> Max (Ω)	I <sub>DC</sub> Max (mA)
R27K	0.27	40	25.2	360	0.08	1110
R33K	0.33	40	25.2	350	0.08	1110
R39K	0.39	40	25.2	320	0.09	1000
R47K	0.47	40	25.2	300	0.10	1000
R56K	0.56	40	25.2	280	0.11	950
R68K	0.68	40	25.2	250	0.12	900
R82K	0.82	40	25.2	200	0.12	900
1R0K	1.0	40	25.2	180	0.15	815
1R2K	1.2	40	7.96	165	0.18	740
1R5K	1.5	45	7.96	150	0.20	700
1R8K	1.8	50	7.96	125	0.23	655
2R2K	2.2	50	7.96	110	0.25	630
2R7K	2.7	50	7.96	96	0.28	595
3R3K	3.3	50	7.96	70	0.30	575
3R9K	3.9	45	7.96	65	0.32	555
4R7K	4.7	45	7.96	50	0.35	560
5R6K	5.6	45	7.96	40	0.40	500
6R8K	6.8	40	7.96	30	0.45	470
8R2K	8.2	40	7.96	28	0.72	425
100K	10	40	7.96	22	0.80	370
120K	12	45	2.52	20	0.88	350
150K	15	40	2.52	16	1.00	335
180K	18	50	2.52	15	1.20	315
220K	22	50	2.52	13	1.35	285
270K	27	50	2.52	11	1.50	270
330K	33	50	2.52	10	1.70	255
390K	39	50	2.52	9.5	2.30	240
470K	47	60	2.52	8.5	2.60	205
560K	56	60	2.52	7.5	2.90	195
680K	68	60	2.52	6.5	3.20	185
820K	82	60	2.52	6.0	3.50	175
101K	100	60	2.52	5.5	3.80	165
121K	120	60	0.796	5.4	4.40	160
151K	150	60	0.796	4.7	5.00	150
181K	180	60	0.796	4.3	6.50	140
221K	220	60	0.796	4.0	9.50	130
271K	270	60	0.796	3.7	10.5	120
331K	330	60	0.796	3.4	11.6	100
391K	390	60	0.796	2.8	13.0	95
471K	470	60	0.796	2.5	18.0	90
561K	560	60	0.796	2.3	23.0	85
681K	680	60	0.796	2.0	26.0	75
821K	820	60	0.796	1.5	20.0	65
102K	1000	60	0.796	1.2	20.0	60

### PHYSICAL CHARACTERISTICS:



### TECHNICAL INFORMATION:

- Operating Temperature: -25°C to +105°C
- Marking EIA 4 band color code
- Tolerance: J=±5%, K=±10%
- Letter suffix indicates standard tolerance
- Check SCD for detail E&M specification

Note: All specifications subject to change without notice

	AICC-02	AICC-03
A Max	0.245 (6,22)	0.375 (9,53)
B	0.090±0.010 (2,29±0,25)	0.13±0.010 (3,30±0,25)
C Typ	1.05 (26,7)	1.05 (26,7)
D	0.020 (0,51)	0.020 (0,51)

# THRU-HOLE AXIAL CONFORMAL/EPOXY COATED INDUCTORS

## AICC-04, AIAP-01 SERIES

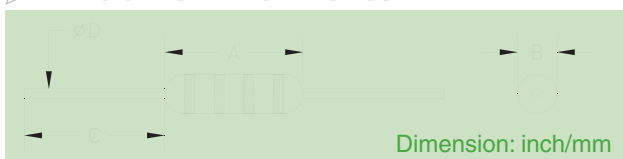


### STANDARD SPECIFICATIONS:

Part Number AICC-04	L (μH)	Q Min	L.Q Test Freq (MHz)	SRF Min (MHz)	R <sub>DC</sub> Max (Ω)	I <sub>DC</sub> Max (mA)
R10K	0.10	38	25.2	680	0.08	1380
R12K	0.12	38	25.2	640	0.09	1300
R15K	0.15	38	25.2	600	0.11	1230
R18K	0.18	35	25.2	550	0.12	1120
R22K	0.22	33	25.2	510	0.14	1040
R27K	0.27	32	25.2	480	0.18	975
R33K	0.33	30	25.2	410	0.22	830
R39K	0.39	30	25.2	385	0.30	710
R47K	0.47	30	25.2	330	0.35	680
R56K	0.56	30	25.2	310	0.50	550
R68K	0.68	28	25.2	280	0.60	500
R82K	0.82	28	25.2	260	0.85	420
1R0K	1.0	26	25.2	240	0.10	390
1R2K	1.2	60	7.96	150	0.15	620
1R5K	1.5	60	7.96	140	0.18	560
1R8K	1.8	60	7.96	125	0.20	480
2R2K	2.2	60	7.96	115	0.29	415
2R7K	2.7	50	7.96	100	0.40	355
3R3K	3.3	50	7.96	90	0.42	285
3R9K	3.9	50	7.96	80	0.60	263
4R7K	4.7	40	7.96	60	0.65	230
5R6K	5.6	40	7.96	45	0.70	195
6R8K	6.8	40	7.96	40	0.90	185
8R2K	8.2	40	7.96	28	1.00	160
100K	10	35	7.96	24	1.10	144
120K	12	60	2.52	20	1.62	160
150K	15	60	2.52	17	1.75	157
180K	18	60	2.52	16	1.85	149
220K	22	60	2.52	14	2.00	144
270K	27	60	2.52	12	2.10	140
330K	33	60	2.52	10	2.20	130
390K	39	50	2.52	9.5	2.30	125
470K	47	50	2.52	9.0	2.40	110
560K	56	50	2.52	7.8	3.00	100
680K	68	50	2.52	7.0	3.40	92
820K	82	50	2.52	8.7	3.80	88
101K	100	50	2.52	6.1	4.10	84
121K	120	50	0.796	4.8	6.50	68
151K	150	50	0.796	4.1	8.30	61
181K	180	60	0.796	4.0	8.90	57
221K	220	60	0.796	3.5	10.1	52
271K	270	60	0.796	3.3	11.0	47
331K	330	60	0.796	3.1	12.4	45
391K	390	60	0.796	2.9	13.6	40
471K	470	60	0.796	2.4	18.4	36
561K	560	60	0.796	2.2	20.3	35
681K	680	60	0.796	2.0	22.3	30
821K	820	60	0.796	1.9	25.0	29
102K	1000	60	0.796	1.8	27.4	28

Part Number AIAP-01	L (μH)	L Test Freq (KHz)	SRF Min (MHz)	R <sub>DC</sub> Max (Ω)	I <sub>DC</sub> Max (mA)
1R0K	1.0	100	190	0.018	3300
1R2K	1.2	100	170	0.019	3200
1R5K	1.5	100	160	0.020	3100
1R8K	1.8	100	150	0.023	2900
2R2K	2.2	100	130	0.031	2600
2R7K	2.7	100	120	0.033	2500
3R3K	3.3	100	110	0.054	1900
3R9K	3.9	100	100	0.060	1800
4R7K	4.7	100	86	0.068	1700
5R6K	5.6	100	64	0.074	1600
6R8K	6.8	100	44	0.080	1600
8R2K	8.2	100	32	0.087	1500
100K	10	100	25	0.095	1500
120K	12	100	17	0.11	1400
150K	15	100	13	0.15	1200
180K	18	100	10	0.16	1100
220K	22	100	8.4	0.19	1000
270K	27	100	8.0	0.22	950
330K	33	100	7.6	0.24	910
390K	39	100	7.1	0.26	880
470K	47	100	6.0	0.35	760
560K	56	100	5.8	0.47	650
680K	68	100	4.3	0.53	610
820K	82	100	4.1	0.60	580
101K	100	100	3.9	0.67	550
121K	120	100	3.6	0.90	470
151K	150	100	3.2	1.2	410
181K	180	100	2.8	1.4	380
221K	220	100	2.3	1.9	320
271K	270	100	2.1	2.1	310
331K	330	100	1.9	2.4	290
391K	390	100	1.7	3.0	260
471K	470	100	1.4	3.4	240
561K	560	100	1.3	4.7	210
681K	680	100	1.2	6.4	180
821K	820	100	1.1	7.1	170
102K	1000	100	1.0	7.9	160
122K	1200	100	0.94	9	150
152K	1500	100	0.76	12	130
182K	1800	100	0.72	14	120
222K	2200	100	0.64	19	100
272K	2700	100	0.56	25	90
332K	3300	100	0.53	29	83
392K	3900	100	0.48	34	77
472K	4700	100	0.45	37	74
562K	5600	100	0.40	50	63
682K	6800	100	0.36	58	59
822K	8200	100	0.29	68	54
103K	10000	100	0.27	75	52

### PHYSICAL CHARACTERISTICS:



Dimension: inch/mm

- Operating Temperature: -40°C to +85°C
  - Marking EIA 4 band color code
  - Tolerance: J=±5%, K=±10%
  - Letter suffix indicates standard tolerance
  - Check SCD for detail E&M specification
- Note: All specifications subject to change without notice

	AICC-04	AIAP-01
A Max	0.300 (7,62)	0.360 (9,14)
B	0.118MAX (3,00)	0.13±0.010 (3,30±0,25)
C Typ	1.15 (29,2)	1.15 (29,2)
D	0.020 (0,51)	0.020 (0,51)

AICC-04 = Conformal coated ferrite  
AIAP-01 = Clear epoxy coated ferrite

ABRACON IS  
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rev.1.1-8/04



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