

# SURFACE-MOUNT AIR COIL



AIAC SERIES : AIAC-1512, 2712, 2015, 4125

## FEATURES:

- High current design
- Wide Range Frequency Response
- Excellent Q & SRF

## OPTIONS:

- Tape & Reel is standard
- Bulk packaging available for smaller quantities

## APPLICATIONS:

- Blue Tooth
- Digital Equipment
- Wireless communications Equipment

## STANDARD SPECIFICATIONS:

Part Number	L (nH)	L TOL	Turns	Q Min	L. Test Freq (MHz)	SRF Min (GHz)	RDC Max (mΩ)	IDC Max (A)
AIAC-1512C-2N5	2.5	K	1	145	150	12.5	1.1	4.0
AIAC-1512C-5N	5.0	K, J	2	140	150	6.50	1.8	4.0
AIAC-1512C-8N	8.0	K, J	3	140	150	5.00	2.6	4.0
AIAC-1512C-12N5	12.5	K, J	4	137	150	3.30	3.4	4.0
AIAC-1512C-18N5	18.5	K, J	5	132	150	2.50	3.9	4.0
AIAC-2712C-17N5	17.5	K, J	6	100	150	2.20	4.5	4.0
AIAC-2712C-22N	22.0	K, J	7	102	150	2.10	5.2	4.0
AIAC-2712C-28N	28.0	K, J	8	105	150	1.80	6.0	4.0
AIAC-2712C-35N5	35.5	K, J	9	112	150	1.50	6.8	4.0
AIAC-2712C-43N	43.0	K, J	10	106	150	1.20	7.9	4.0
AIAC-2015C-22N	22	J, K	4	100	150	3.20	4.2	3.0
AIAC-2015C-27N	27	J, K	5	100	150	2.70	4.0	3.5
AIAC-2015C-33N	33	J, K	5	100	150	2.50	4.8	3.0
AIAC-2015C-39N	39	J, K	6	100	150	2.10	4.4	3.0
AIAC-2015C-47N	47	J, K	6	100	150	2.10	5.6	3.0
AIAC-2015C-56N	56	J, K	7	100	150	1.50	6.2	3.0
AIAC-2015C-68N	68	J, K	7	100	150	1.50	8.2	2.5
AIAC-2015C-82N	82	J, K	8	100	150	1.30	9.4	2.5
AIAC-2015C-R100	100	J, K	8	100	150	1.20	12.3	1.7
AIAC-2015C-R120	120	J, K	9	100	150	1.10	17.3	1.5
AIAC-4125C-90N	90	J, K	9	95	50	1.140	15.0	3.5
AIAC-4125C-R111	111	J, K	10	87	50	1.020	15.0	3.5
AIAC-4125C-R130	130	J, K	11	87	50	0.900	20.0	3.0
AIAC-4125C-R169	169	J, K	12	95	50	0.875	25.0	3.0
AIAC-4125C-R206	206	J, K	13	95	50	0.800	30.0	3.0
AIAC-4125C-R222	222	J, K	14	92	50	0.730	35.0	3.0
AIAC-4125C-R246	246	J, K	15	95	50	0.685	35.0	3.0
AIAC-4125C-R307	307	J, K	16	95	50	0.660	35.0	3.0
AIAC-4125C-R380	380	J, K	17	95	50	0.590	50.0	2.5
AIAC-4125C-R422	422	J, K	18	95	50	0.540	60.0	2.5
AIAC-4125C-R491	491	J, K	18	95	50	0.535	65.0	2.0
AIAC-4125C-R538	538	J, K	18	87	50	0.490	90.0	2.0

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## STANDARD SPECIFICATIONS (Cont.):

	A	B	C
AIAC-1512C	.145 (3,68)	.120 (3,05)	.125 (2,92)
AIAC-2712C	.270 (6,86)	.120 (3,05)	.125 (2,92)
AIAC-2015C (Max)	.195 (4,95)	.150 (3,81)	.166 (4,20)
AIAC-4125C (Max)	.416 (10,55)	.250 (6,35)	.235 (5,97)

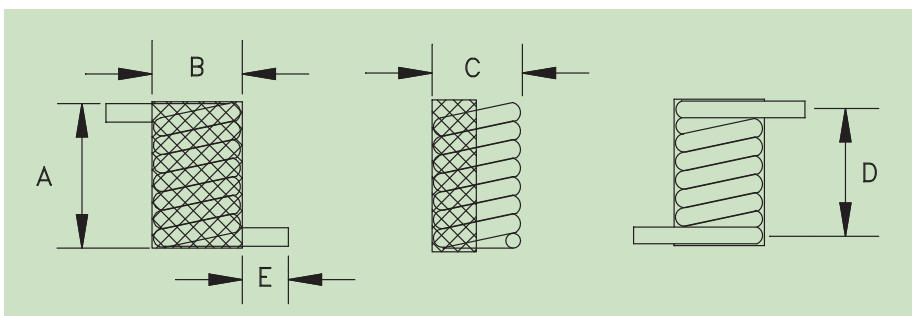
	D	E	F
AIAC-1512C	.115±.010 (2,92±0,25)	.023±.015 (0,58±0,38)	.130 (3,30)
AIAC-2712C	.230±.015 (5,84±0,25)	.023±.015 (0,58±0,38)	.130 (3,30)
AIAC-2015C	.170±.015 (4,32±0,39)	.061±.015 (1,53±0,39)	.204 (5,16)
AIAC-4125C	.315±.020 (7,98±0,51)	.050±.016 (1,27±0,39)	.264 (6,70)

	G	H	J
AIAC-1512C	.065 (1,65)	.050 (1,27)	.240 (6,10)
AIAC-2712C	.185 (4,70)	.050 (1,27)	.240 (6,10)
AIAC-2015C	.113 (2,85)	.059 (1,48)	.307 (7,78)
AIAC-4125C	.235 (5,95)	.081 (2,04)	.359 (9,12)

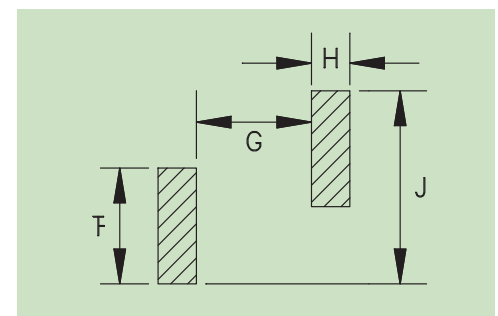
- Tolerance: K=±10%, J=±5%
- Testing: HP4291A, HP16193A, HP4286A or equivalent.
- Add -T for tape and reel.
- IDC for 15°C temperature rise max
- Operating Temperature: -40°C to +125°C

Note: All specifications subject to change without notice.

## PHYSICAL CHARACTERISTICS:



## Suggested Land Pattern:



Dimension: inch/(mm)