AL Series

Features

- Design to be compact, small and light-weight
- Wide range of inductance
- Contribute to be high Q and self-resonant frequencies
- Tapping type that is convenient for automatic insertion
- Coating epoxy resin that ensure the humidity resistance to be long life

Applications

For VCRs, color TVs, CRTs, stereo, car radios and radio transceivers, telephone answering, disk drivers, personal computers and industrial, electronics products, etc.

Product Identification

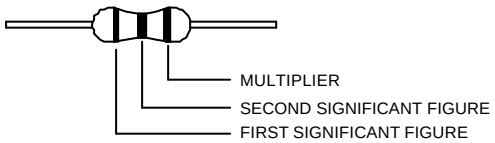
AL0410 △ R22 □ - S -▽

- Ammunition pack(A:26.5,B:52.4)
- CLS Standard
- Tolerance(J:±5%,K:±10%,M:±20%)
- Inductance
- S:bulk
  ST:Tapping pack
  B:bended legs
  A:AVI Type
  AT:AVI Tapping Type
  PT:PANA Tapping Type
- Product Symbol(AL0204.AL0307,AL0410,AL0510)

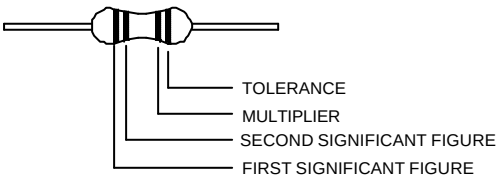
△: (**S:** bulk **ST:** Tapping pack **B:** bended legs **A:** AVI Type **AT:** AVI Tapping Type **PT:** PANA Tapping Type)
□: Tolerance (**J:** ±5%,**K:** ±10%, **M:** ± 20%)
▽: Ammunition pack (**A:** 26.5, **B:** 52.4)

Color Cording

AL0204 Series



AL0307/ 0410/ 0510 Series



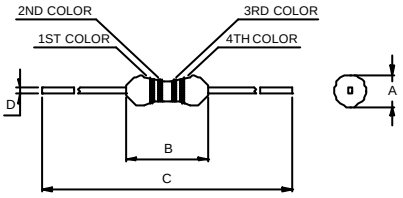
The Nominal Inductance is Marked.
By A Color Code As Listed In Table Belo

Color	Nominal Inductance (μH)			
	First Figure	Second Figure	Magnification/*	Tolerance
Black	0		1	±20%
Brown	1		10	-
Red	2		100	-
Orange	3		1000	-
Yellow	4		-	-
Green	5		-	-
Blue	6		-	-
Purple	7		-	-
Gray	8		-	-
White	9		-	-
Gold	-		0.1	±5%
Silver	-		0.01	±10%

- CHILISIN has released lead-free products which are RoHS compliant,and the part number of lead-free products will be added "-N" after original one as identification.
  Ex: AL0204 △ R22 □-S-▽-N.

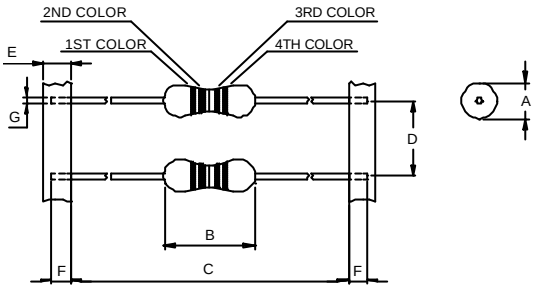
- L.Q: HP4285+HP42851A
- SRF: HP4287ASRF
- RDC: CHEN HWA502BC
- IDC: CHEN HWA CH1061+301A

Shapes and Dimensions



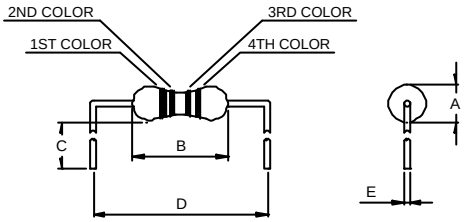
Dimension in mm

	AL0204S	AL0307S	AL0410S	AL0510S
A	2.3^{+0}	3^{+0}	4^{+0}	4.5^{+0}
B	4^{+0}	7^{+0}	10.5^{+0}	10.5^{+0}
C	62±3			
D	0.5∅	0.5∅	0.65∅	



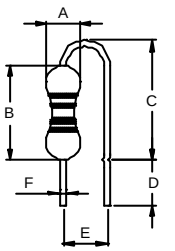
Dimension in mm

	AL0204ST	AL0307ST	AL0410ST	AL0510ST
A	2.3^{+0}	3^{+0}	4^{+0}	4.5^{+0}
B	4^{+0}	7^{+0}	10.5^{+0}	10.5^{+0}
C	52.4±1.5			
D	5±0.5			
E	6±1			
F	3.2^{-0}			
G	0.5∅	0.5∅	0.65∅	



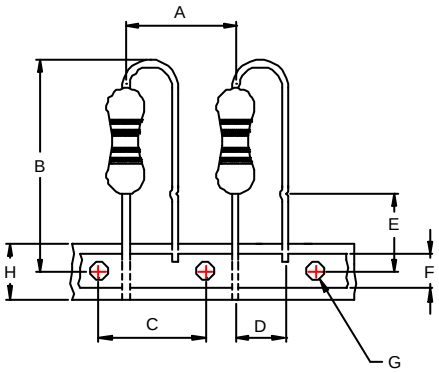
Dimension in mm

	AL0204B	AL0307B	AL0410B	AL0510B
A	2.3^{+0}	3^{+0}	4^{+0}	4.5^{+0}
B	4^{+0}	7^{+0}	10.5^{+0}	10.5^{+0}
C	6±1			
D	10±1		12.5±1	
E	0.5∅	0.5∅	0.65∅	



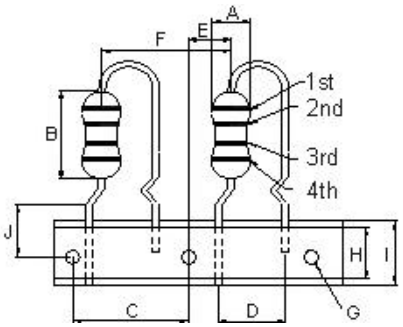
Dimension in mm

ITEM PART	AL0204A	AL0307A	AL0410A	AL0510A
A	2.3^{+0}	3^{+0}	4^{+0}	4.5^{+0}
B	4^{+0}	7^{+0}	10.5^{+0}	10.5^{+0}
C	14^{+0}			
D	6±1			
E	5±1.5			
F	0.5∅	0.5∅	0.65∅	



Dimension in mm

	AL0204AT	AL0307AT	AL0410AT	AL0510AT
A	12.7±1			
B	32^{+0}			
C	12.7±0.3			
D	4.8~5.8			
E	16±1			
F	12.5^{-0}			
G	4±0.3			
H	17.5~19			



Dimension in mm

	AL0204PT	AL0307PT	AL0410PT	AL0510PT
A	2.3^{+0}	3^{+0}	4^{+0}	4.5^{+0}
B	4^{+0}	7^{+0}	10.5^{+0}	10.5^{+0}
C	12.7±0.3			
D	4.8~5.8			
E	5.85±1.0			
F	12.7±1.0			
G	4±0.3			
H	13Min.			
I	16±1			

AL0204 Series

Electrical Parameters

Item	Inductance L (㎜H)	Test Frequency (MHz)	Standard Specification			
			Q Min.	S.R.F Min. (MHz)	D.C. Resistance Max. (W)	IDC (mA)
AL0204 △ R22 □-S-▽	0.22	25.2	35	150	0.40	400
AL0204 △ R27 □-S-▽	0.27	25.2	35	150	0.43	380
AL0204 △ R33 □-S-▽	0.33	25.2	35	150	0.48	370
AL0204 △ R39 □-S-▽	0.39	25.2	35	150	0.51	350
AL0204 △ R47 □-S-▽	0.47	25.2	35	150	0.56	330
AL0204 △ R56 □-S-▽	0.56	25.2	35	150	0.61	320
AL0204 △ R68 □-S-▽	0.68	25.2	35	150	0.67	310
AL0204 △ R82 □-S-▽	0.82	25.2	35	150	0.74	290
AL0204 △ 1R0 □-S-▽	1.00	25.2	35	120	0.80	270
AL0204 △ 1R2 □-S-▽	1.20	7.96	40	110	0.90	260
AL0204 △ 1R5 □-S-▽	1.50	7.96	40	80	1.0	250
AL0204 △ 1R8 □-S-▽	1.80	7.96	40	60	1.1	240
AL0204 △ 2R2 □-S-▽	2.20	7.96	40	45	1.2	230
AL0204 △ 2R7 □-S-▽	2.70	7.96	40	40	1.3	220
AL0204 △ 3R3 □-S-▽	3.30	7.96	40	38	1.4	210
AL0204 △ 3R9 □-S-▽	3.90	7.96	40	35	1.6	200
AL0204 △ 4R7 □-S-▽	4.70	7.96	40	32	1.7	190
AL0204 △ 5R6 □-S-▽	5.60	7.96	40	30	1.9	180
AL0204 △ 6R8 □-S-▽	6.80	7.96	40	28	2.0	175
AL0204 △ 8R2 □-S-▽	8.20	7.96	40	26	2.2	165
AL0204 △ 100 □-S-▽	10	7.96	40	24	2.5	160
AL0204 △ 120 □-S-▽	12	2.52	40	22	2.5	150
AL0204 △ 150 □-S-▽	15	2.52	40	20	2.8	145
AL0204 △ 180 □-S-▽	18	2.52	40	18	3.1	140
AL0204 △ 220 □-S-▽	22	2.52	40	17	3.4	130
AL0204 △ 270 □-S-▽	27	2.52	40	16	4.3	80
AL0204 △ 330 □-S-▽	33	2.52	40	14	4.7	76
AL0204 △ 390 □-S-▽	39	2.52	40	13	5.2	74
AL0204 △ 470 □-S-▽	47	2.52	40	12	5.8	70
AL0204 △ 560 □-S-▽	56	2.52	40	11	6.4	68
AL0204 △ 680 □-S-▽	68	2.52	40	10	7.2	64
AL0204 △ 820 □-S-▽	82	2.52	40	9.5	11	46
AL0204 △ 101 □-S-▽	100	0.796	40	9.0	12	44
AL0204 △ 121 □-S-▽	120	0.796	40	8.0	13	42
AL0204 △ 151 □-S-▽	150	0.796	40	6.0	16	39
AL0204 △ 181 □-S-▽	180	0.796	40	5.5	18	37
AL0204 △ 221 □-S-▽	220	0.796	40	5.0	20	35

- Tolerance: J: ±5%, K: ±10%, M: ± 20%

AL0307 Series

Electrical Parameters

Item	Inductance L (㎜H)	Test Frequency (MHz)	Standard Specification			
			Q Min.	S.R.F Min. (MHz)	D.C. Resistance Max. (Ω)	IDC (mA)
AL0307 △ R22 □-S-▽	0.22	25.2	45	150	0.20	400
AL0307 △ R27 □-S-▽	0.27	25.2	45	150	0.22	380
AL0307 △ R33 □-S-▽	0.33	25.2	45	150	0.24	370
AL0307 △ R39 □-S-▽	0.39	25.2	50	150	0.26	350
AL0307 △ R47 □-S-▽	0.47	25.2	45	150	0.28	330
AL0307 △ R56 □-S-▽	0.56	25.2	50	150	0.31	320
AL0307 △ R68 □-S-▽	0.68	25.2	50	150	0.34	310
AL0307 △ R82 □-S-▽	0.82	25.2	55	150	0.37	290
AL0307 △ 1R0 □-S-▽	1.00	25.2	60	150	0.40	270
AL0307 △ 1R2 □-S-▽	1.20	7.96	40	165	0.18	740
AL0307 △ 1R5 □-S-▽	1.50	7.96	45	150	0.20	700
AL0307 △ 1R8 □-S-▽	1.80	7.96	50	125	0.23	655
AL0307 △ 2R2 □-S-▽	2.20	7.96	50	110	0.25	630
AL0307 △ 2R7 □-S-▽	2.70	7.96	50	95	0.28	595
AL0307 △ 3R3 □-S-▽	3.30	7.96	50	70	0.30	575
AL0307 △ 3R9 □-S-▽	3.90	7.96	45	65	0.32	555
AL0307 △ 4R7 □-S-▽	4.70	7.96	45	50	0.35	530
AL0307 △ 5R6 □-S-▽	5.60	7.96	45	40	0.40	500
AL0307 △ 6R8 □-S-▽	6.80	7.96	40	30	0.45	470
AL0307 △ 8R2 □-S-▽	8.20	7.96	40	28	0.55	425
AL0307 △ 100 □-S-▽	10	7.96	40	22	0.72	370
AL0307 △ 120 □-S-▽	12	2.52	45	20	0.80	350
AL0307 △ 150 □-S-▽	15	2.52	50	16	0.88	335
AL0307 △ 180 □-S-▽	18	2.52	50	15	1.00	315
AL0307 △ 220 □-S-▽	22	2.52	50	13	1.20	285
AL0307 △ 270 □-S-▽	27	2.52	50	11	1.35	270
AL0307 △ 330 □-S-▽	33	2.52	50	10	1.50	255
AL0307 △ 390 □-S-▽	39	2.52	50	9.5	1.70	240
AL0307 △ 470 □-S-▽	47	2.52	60	8.5	2.30	205
AL0307 △ 560 □-S-▽	56	2.52	60	7.5	2.60	195
AL0307 △ 680 □-S-▽	68	2.52	60	6.5	2.90	185
AL0307 △ 820 □-S-▽	82	2.52	60	6.0	3.20	175
AL0307 △ 101 □-S-▽	100	0.796	60	5.5	3.50	165
AL0307 △ 121 □-S-▽	120	0.796	60	5.4	3.80	160
AL0307 △ 151 □-S-▽	150	0.796	60	4.75	4.40	150
AL0307 △ 181 □-S-▽	180	0.796	60	4.35	5.00	140
AL0307 △ 221 □-S-▽	220	0.796	60	4.00	5.70	130
AL0307 △ 271 □-S-▽	270	0.796	60	3.70	6.50	120
AL0307 △ 331 □-S-▽	330	0.796	60	3.40	9.50	100
AL0307 △ 391 □-S-▽	390	0.796	60	2.80	10.50	95
AL0307 △ 471 □-S-▽	470	0.796	60	2.55	11.60	90
AL0307 △ 561 □-S-▽	560	0.796	60	2.35	13.00	85
AL0307 △ 681 □-S-▽	680	0.796	60	2.00	18.00	75
AL0307 △ 821 □-S-▽	820	0.796	60	1.50	23.00	65
AL0307 △ 102 □-S-▽	1000	0.796	60	1.20	26.00	60

- Tolerance: J: ± 5%, K: ±10%, M: ± 20%

AL0410 Series

Electrical Parameters

Item	Inductance L (㎜H)	Test Frequency (MHz)	Standard Specification			
			Q Min.	S.R.F Min. (MHz)	D.C. Resistance Max. (Ω)	IDC (mA)
AL0410 △ R22 □-S-▽	0.22	25.2	25	380	0.21	880
AL0410 △ R27 □-S-▽	0.27	25.2	25	340	0.24	800
AL0410 △ R33 □-S-▽	0.33	25.2	25	300	0.28	750
AL0410 △ R39 □-S-▽	0.39	25.2	25	280	0.32	680
AL0410 △ R47 □-S-▽	0.47	25.2	25	250	0.36	650
AL0410 △ R56 □-S-▽	0.56	25.2	25	230	0.41	600
AL0410 △ R68 □-S-▽	0.68	25.2	25	210	0.47	550
AL0410 △ R82 □-S-▽	0.82	25.2	45	172	0.17	980
AL0410 △ 1R0 □-S-▽	1.00	25.2	45	157	0.19	920
AL0410 △ 1R2 □-S-▽	1.20	7.96	50	144	0.21	880
AL0410 △ 1R5 □-S-▽	1.50	7.96	50	131	0.23	830
AL0410 △ 1R8 □-S-▽	1.80	7.96	55	121	0.25	790
AL0410 △ 2R2 □-S-▽	2.20	7.96	55	110	0.28	750
AL0410 △ 2R7 □-S-▽	2.70	7.96	60	100	0.30	720
AL0410 △ 3R3 □-S-▽	3.30	7.96	65	94	0.34	670
AL0410 △ 3R9 □-S-▽	3.90	7.96	65	86	0.37	640
AL0410 △ 4R7 □-S-▽	4.70	7.96	70	80	0.39	620
AL0410 △ 5R6 □-S-▽	5.60	7.96	70	74	0.43	590
AL0410 △ 6R8 □-S-▽	6.80	7.96	75	68	0.48	550
AL0410 △ 8R2 □-S-▽	8.20	7.96	80	53	0.52	530
AL0410 △ 100 □-S-▽	10	7.96	85	45	0.58	500
AL0410 △ 120 □-S-▽	12	2.52	75	34	0.63	480
AL0410 △ 150 □-S-▽	15	2.52	70	20	0.72	460
AL0410 △ 180 □-S-▽	18	2.52	65	14	0.77	430
AL0410 △ 220 □-S-▽	22	2.52	60	9.9	0.84	410
AL0410 △ 270 □-S-▽	27	2.52	55	7.6	0.94	390
AL0410 △ 330 □-S-▽	33	2.52	55	6.3	1.03	370
AL0410 △ 390 □-S-▽	39	2.52	50	6.3	1.12	350
AL0410 △ 470 □-S-▽	47	2.52	45	6.3	1.22	340
AL0410 △ 560 □-S-▽	56	2.52	40	6.2	1.34	320
AL0410 △ 680 □-S-▽	68	2.52	40	5.7	1.47	305
AL0410 △ 820 □-S-▽	82	2.52	35	5.3	1.62	290
AL0410 △ 101 □-S-▽	100	0.796	30	4.8	1.80	275
AL0410 △ 121 □-S-▽	120	0.796	70	3.8	3.70	185
AL0410 △ 151 □-S-▽	150	0.796	70	3.5	4.20	175
AL0410 △ 181 □-S-▽	180	0.796	70	3.3	4.60	165
AL0410 △ 221 □-S-▽	220	0.796	70	3.0	5.10	155
AL0410 △ 271 □-S-▽	270	0.796	65	2.8	5.80	145
AL0410 △ 331 □-S-▽	330	0.796	65	2.6	6.40	137
AL0410 △ 391 □-S-▽	390	0.796	65	2.4	7.00	133

Tolerance: K: ±10%, M: ± 20%

AL0510 Series

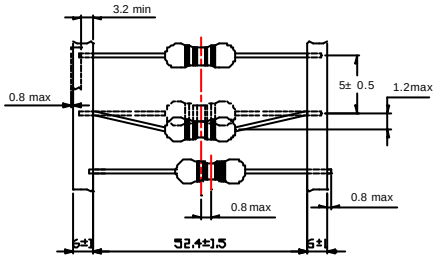
Electrical Parameters

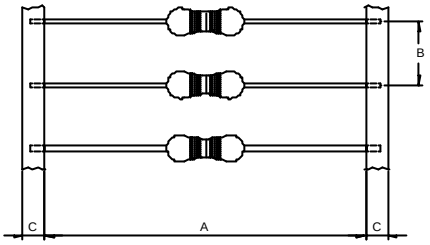
Item	Inductance L (㎜H)	Test Frequency (MHz)	Standard Specification			
			Q Min.	S.R.F Min. (MHz)	D.C. Resistance Max. (Ω)	IDC (mA)
AL0510 △ 471 □-S-▽	470	0.796	60	2.25	7.70	126
AL0510 △ 561 □-S-▽	560	0.796	60	2.10	8.50	120
AL0510 △ 681 □-S-▽	680	0.796	55	1.95	9.40	113
AL0510 △ 821 □-S-▽	820	0.796	55	1.85	10.5	100
AL0510 △ 102 □-S-▽	1000	0.796	50	1.70	12.0	100

Tolerance: K: ±10%, M: ± 20%

Packaging Specifications

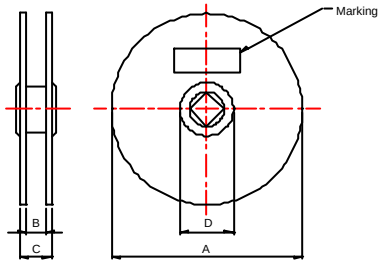
Specification of Tape & Reel





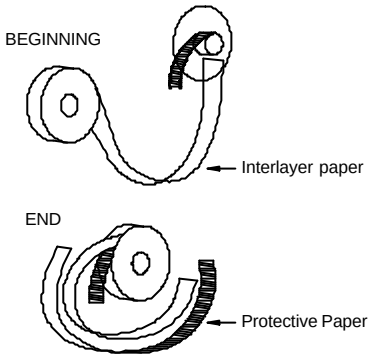
Dimension in mm

TYPE	A	B	C
▽=A	26.0~27.5	5±0.5	6±1.0
▽=B	52.4±1.5	5±0.5	6±1.0

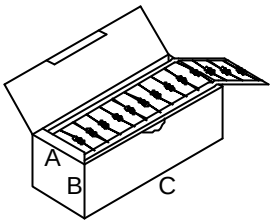


Dimension in mm

A	B	C	D
285	70	75	15



Specification of Ammunition Pack



▽=A (for inner tape: $26.5_{-0.5}^{+1}$ mm width)

▽=B (for inner tape: 52.4±1.5 mm width)

Dimension in mm

Type	A	B	C
▽=A	50	70	255
▽=B	75	100	255

Reel Packing

Part No	Quantity Per Reel	Quantity Carton
AL 0204ST-Series-S	5000 PCS	20000 PCS
AL 0307ST -Series-S	5000 PCS	20000 PCS
AL 0410ST-Series-S	2500 PCS	20000 PCS
AL 0510ST-Series-S	2500 PCS	20000 PCS

Ammunition Packing

Part No	Quantity Per Reel	Quantity Carton
AL 0204ST-Series–S-A	2000 PCS	72000 PCS
AL 0204ST-Series-S-B	4000 PCS	48000 PCS
AL 0307ST-Series–S-A	2000 PCS	48000 PCS
AL 0307ST-Series-S-B	4000 PCS	48000 PCS
AL 0410ST-Series–S-A	2000 PCS	24000 PCS
AL 0410ST-Series-S-B	2500 PCS	30000 PCS
AL 0510ST-Series–S-A	2000 PCS	24000 PCS
AL 0510ST-Series-S-B	2000 PCS	24000 PCS

In Bulks

Part No	Quantity Per Bag
AL 0204S-Series-S	500 PCS
AL 0307S-Series-S	500 PCS
AL 0410S-Series-S	500 PCS
AL 0510S-Series-S	500 PCS.