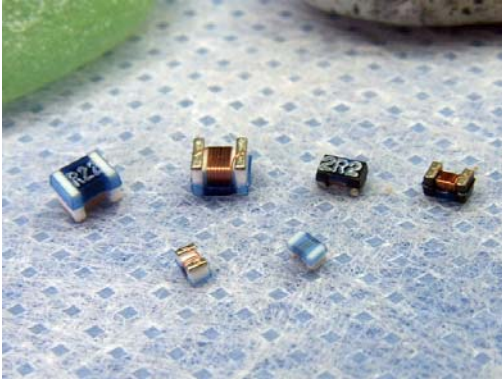


SMD INDUCTOR FOR HIGH FREQUENCY SIGNAL LINE

COMPONENT

PRODUCT IDENTIFICATION



WHIN 2520 F - 1R0 K
A B C D E

A : Small Molded and Wire Wound Chip Inductors.

B : DIMENSION 2.5mm*2.0mm

C : MATERIAL CODE : F:FERRITE C:CERAMIC

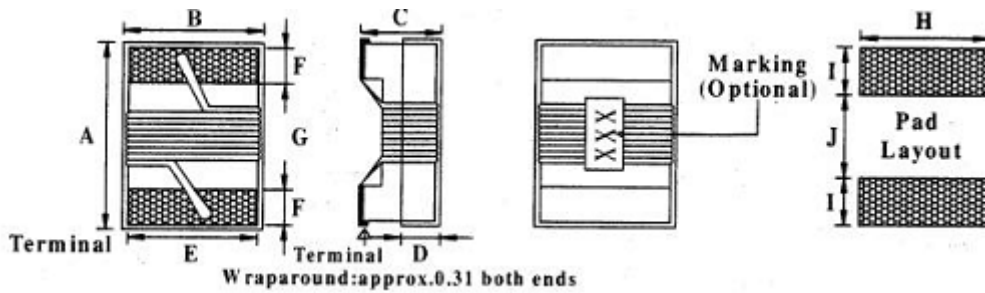
D : INDUCTANCE

E : TOLERANCE : J:±5% K:10% M:20%

APPLICATIONS

- For high-frequency applications including mobile phones, portable phones, such as PA, ANT, VCO, SAW, etc.
- Mobile phones such as GSM, CDMA, PDA, etc.
- Bluetooth, W-LAN

SHAPES & DIMENSIONS



Unit In mm

TYPE	A (Max)	B (Max)	C (Max)	D (Ref.)	E	F	G	H	I	J
WHIN1005	1.19	0.64	0.66	0.25	0.51	0.23	0.56	0.66	0.36	0.46
WHIN1608	1.80	1.12	1.02	0.38	0.76	0.33	0.86	1.02	0.64	0.64
WHIN2012	2.29	1.73	1.52	0.51	1.27	0.51	1.02	1.78	1.02	0.76
WHIN2520	2.92	2.79	2.10	0.51	2.03	0.51	2.54	2.54	1.02	1.27

SMD INDUCTOR FOR HIGH FREQUENCY SIGNAL LINE

COMPONENT

ELECTRICAL CHARACTERISTICS

WHIN1005C SERIES

[↑ Back](#)

Inductance		Q Min.	Test Freq. (MHz)	SRF (GHz) Min.	DCR (Ω) Max.	IDC (mA) Max.	900MHz		1.7GHz	
Code	(nH)						L Typ.	Q Typ.	L Typ.	Q Typ.
1N0□	1.0	16	250	7.0	0.054	1360	1.02	77	1.02	69
2N0□	2.0	16	250	7.0	0.084	1040	1.07	54	1.93	75
2N2□	2.2	19	250	7.0	0.084	960	2.19	59	2.23	100
3N3□	3.3	19	250	7.0	0.079	840	3.10	65	3.12	87
3N9□	3.9	19	250	6.0	0.079	840	3.89	54	4.00	75
5N2□	5.2	20	250	4.8	0.12	640	5.15	56	5.25	82
5N6□	5.6	20	250	4.7	0.099	760	5.16	54	5.28	81
6N8□	6.8	20	250	4.8	0.099	680	6.56	63	6.93	78
8N2□	8.2	21	250	4.4	0.136	680	8.50	57	8.85	84
10N□	10.0	21	250	3.9	0.240	480	9.80	50	10.10	67
12N□	12.0	24	250	3.6	0.168	640	11.9	53	12.70	71
15N□	15.0	24	250	3.3	0.204	560	14.6	55	15.50	77
18N□	18.0	24	250	3.1	0.276	420	18.3	57	20.28	62
22N□	22.0	24	250	2.8	0.360	400	23.2	53	26.75	53
27N□	27.0	24	250	2.5	0.360	400	28.7	49	33.50	63
33N□	33.0	24	250	2.4	0.450	400	34.9	31	41.74	32
39N□	39.0	25	250	2.1	0.660	200	41.7	47	50.23	45
43N□	43.0	25	250	2.0	0.744	175	45.8	46	61.55	34
47N□	47.0	20	250	2.1	0.792	175	50.0	38	-	-
56N□	56.0	22	250	1.8	0.780	175	62.8	42	-	-
68N□	68.0	22	250	1.6	0.912	150	78.19	36	-	-

□ : Please specify the inductance tolerance, B($\pm 0.2\mu\text{H}$), S($\pm 0.3\mu\text{H}$), G($\pm 2\%$), J($\pm 5\%$), K($\pm 10\%$)

SMD INDUCTOR FOR HIGH FREQUENCY SIGNAL LINE

COMPONENT

ELECTRICAL CHARACTERISTICS

WHIN1608C SERIES

[↑ Back](#)

Inductance		Q Min.	Test Freq. (MHz)	SRF (GHz) Min.	DCR (Ω) Max.	IDC (mA) Max.	900MHz		1.7GHz	
Code	(nH)						L Typ.	Q Typ.	L Typ.	Q Typ.
2N0□	2.0	16	250	8.0	0.07	700	2.02	35	2.04	50
3N9□	3.9	22	250	6.9	0.07	700	3.95	49	3.96	67
4N7□	4.7	25	250	5.8	0.12	700	4.72	47	4.75	57
6N8□	6.8	27	250	5.8	0.08	700	6.75	60	7.10	81
8N2□	8.2	27	250	4.2	0.13	700	8.25	82	8.37	87
10N□	10	31	250	4.8	0.13	700	10.0	66	10.6	83
12N□	12	35	250	4.0	0.13	700	12.3	72	13.5	83
15N□	15	35	250	4.0	0.13	700	15.4	64	16.8	89
18N□	18	35	250	3.1	0.16	700	18.7	70	21.4	69
22N□	22	38	250	3.0	0.23	700	22.8	73	26.1	71
27N□	27	40	250	2.8	0.14	600	29.2	74	34.6	65
33N□	33	40	250	2.3	0.22	600	36.0	67	49.5	42
39N□	39	40	250	2.2	0.30	600	42.7	60	60.2	40
47N□	47	38	200	2.0	0.35	600	52.2	62	77.2	35
56N□	56	38	200	1.9	0.37	600	62.5	56	97	26
68N□	68	37	200	1.7	0.43	600	80.5	54	168	21
72N□	72	34	150	1.7	0.42	400	82.0	53	135	20
82N□	82	34	150	1.7	0.71	400	96.2	54	177	21
R10□	100	34	150	1.4	0.78	400	124	49	-	-
R12□	120	32	150	1.3	0.84	300	166	39	-	-
R15□	150	28	150	0.99	0.96	280	250	25	-	-
R18□	180	25	100	0.99	1.52	240	305	22	-	-
R22□	220	25	100	0.9	2.02	200	-	-	-	-
R27□	270	25	100	0.9	2.36	170	-	-	-	-
R39□	390	39	100	0.9	3.60	100	-	-	-	-

□ : Please specify the inductance tolerance, B($\pm 0.52\mu\text{H}$), S($\pm 0.3\mu\text{H}$), G($\pm 2\%$), J($\pm 5\%$), K($\pm 10\%$)

SMD INDUCTOR FOR HIGH FREQUENCY SIGNAL LINE

COMPONENT

ELECTRICAL CHARACTERISTICS

WHIN2012C SERIES

[↑ Back](#)

Inductance		Test Freq. (MHz)	Q Min.	Test Freq. (MHz)	SRF (GHz) Min.	DCR (Ω) Max.	IDC (mA) Max.
Code	(nH)						
2N0□	2.0	250	70	1500	8.0	0.03	800
3N9□	3.9	250	70	1500	5.75	0.04	800
4N7□	4.7	250	70	1500	5.75	0.04	800
6N8□	6.8	250	70	1500	5.5	0.06	800
7N5□	7.5	250	70	1000	4.5	0.06	800
8N2□	8.2	250	70	1000	4.7	0.06	800
10N□	10	250	70	1000	4.2	0.08	600
12N□	12	250	80	1000	4.0	0.08	600
15N□	15	250	80	1000	3.4	0.10	600
18N□	18	250	80	1000	3.3	0.10	600
22N□	22	250	60	500	2.6	0.12	600
24N□	24	250	60	500	2.0	0.12	600
27N□	27	250	60	500	2.5	0.12	600
33N□	33	250	60	500	2.05	0.13	600
36N□	36	250	65	500	1.7	0.13	600
39N□	39	250	65	500	2.0	0.15	600
43N□	43	250	65	500	1.65	0.15	600
47N□	47	200	65	500	1.65	0.17	600
56N□	56	200	65	500	1.55	0.19	600
68N□	68	200	60	500	1.45	0.22	500
82N□	82	150	55	500	1.3	0.40	400
R10□	100	150	55	500	1.2	0.52	400
R12□	120	150	50	250	1.1	0.55	400
R15□	150	150	50	250	0.92	0.73	400
R18□	180	100	50	500	0.87	0.88	400
R22□	220	100	50	500	0.85	1.18	340
R24□	240	100	48	250	0.69	1.20	330
R27□	270	100	48	250	0.65	1.36	310
R33□	330	100	40	250	0.60	1.40	300
R39□	390	100	25	250	0.56	1.50	290
R47□	470	50	25	100	0.375	1.76	250
R56□	560	25	23	100	0.34	1.90	210
R62□	620	25	23	100	0.22	2.00	205
R68□	680	25	23	100	0.2	2.15	200
R75□	750	25	20	100	0.2	2.25	185
R82□	820	25	20	100	0.2	2.50	170
1R0□	1000	25	15	50	0.1	2.60	170

□ : Please specify the inductance tolerance, B(±0.52uH), S(±0.3uH), G(±2%), J(±5%), K(±10%)

SMD INDUCTOR FOR HIGH FREQUENCY SIGNAL LINE

COMPONENT

ELECTRICAL CHARACTERISTICS

WHIN2520C SERIES

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Inductance		Test Freq. (MHz)	Q Min.	Test Freq. (MHz)	SRF (GHz) Min.	DCR (Ω) Max.	IDC (mA) Max.
Code	(nH)						
3N9□	3.9	50	60	1500	5.0	0.08	1000
10N□	10	50	50	500	4.1	0.08	1000
15N□	15	50	50	500	2.5	0.10	1000
18N□	18	50	50	350	2.4	0.10	1000
22N□	22	50	55	350	2.4	0.13	1000
24N□	24	50	55	350	1.9	0.13	1000
27N□	27	50	55	350	1.6	0.13	1000
33N□	33	50	60	350	1.6	0.15	1000
39N□	39	50	60	350	1.5	0.15	1000
47N□	47	50	65	350	1.5	0.18	1000
56N□	56	50	65	350	1.3	0.21	1000
68N□	68	50	65	350	1.3	0.21	1000
75N□	75	50	60	350	1.1	0.24	1000
82N□	82	50	60	350	1.0	0.24	1000
R10□	100	25	60	350	1.0	0.37	650
R12□	120	25	60	350	0.95	0.42	600
R15□	150	25	45	100	0.85	0.46	580
R18□	180	25	45	100	0.75	0.55	620
R22□	220	25	45	100	0.7	0.58	500
R24□	240	25	45	100	0.65	0.68	500
R27□	270	25	45	100	0.6	0.73	500
R30□	300	25	45	100	0.585	0.78	450
R33□	330	25	45	100	0.57	0.82	450
R36□	360	25	45	100	0.53	0.88	470
R39□	390	25	45	100	0.5	0.92	470
R47□	470	25	45	100	0.45	1.00	470
R56□	560	25	45	100	0.415	1.14	400
R62□	620	25	45	100	0.375	1.20	300
R68□	680	25	45	100	0.375	1.24	400
R75□	750	25	45	100	0.36	1.54	360
R82□	820	25	45	100	0.35	1.61	400
R91□	910	25	35	100	0.32	1.68	380
1R0□	1000	25	35	100	0.29	1.75	370
1R5□	1500	7.9	28	100	0.2	2.23	330

□ : Please specify the inductance tolerance, B(±0.52uH), S(±0.3uH), G(±2%), J(±5%), K(±10%)

SMD INDUCTOR FOR SIGNAL LINE

COMPONENT

ELECTRICAL CHARACTERISTICS

WHIN2520F SERIES

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Inductance		Q Min.	Test Freq. (MHz)	SRF (MHz) Min.	DCR (Ω) Max.	IDC (mA) Max.
Code	(uH)					
1R2□	1.2	25	25.2	265	0.87	300
1R5□	1.5	25	25.2	235	0.98	260
1R8□	1.8	25	25.2	226	1.10	245
2R2□	2.2	25	25.2	198	1.22	230
2R7□	2.7	25	25.2	180	1.33	220
3R3□	3.3	25	25.2	143	1.46	210
3R9□	3.9	25	25.2	136	1.63	200
4R7□	4.7	25	25.2	105	1.76	195
5R6□	5.6	25	25.2	88	1.97	185
6R8□	6.8	25	7.96	56	1.79	190
8R2□	8.2	25	7.96	48	2.03	180
100□	10.0	25	7.96	44	2.92	165
120□	12.0	25	7.96	42	3.11	160
150□	15.0	25	7.96	37	3.58	155
180□	18.0	20	2.52	32	3.89	150
220□	22.0	20	2.52	28	4.38	140
270□	27.0	20	2.52	24	4.92	130
330□	33.0	20	2.52	22	5.50	125
390□	39.0	20	2.52	20	7.51	110
470□	47.0	20	2.52	18	8.34	100
560□	56.0	20	2.52	16	9.18	95
680□	68.0	20	2.52	14	9.61	90
820□	82.0	20	2.52	12	11.54	80
101□	100.0	20	2.52	7	21	60

□ : Please specify the inductance tolerance, J(±5%), K(±10%)