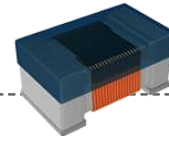




Wire Wound Chip Ferrite Inductors—FWI Series



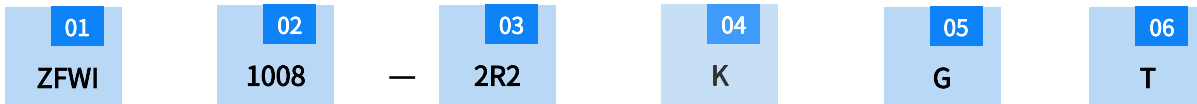
FEATURES

- Strong solderability by reflow soldering and soldering iron.
- Highly accurate dimensions , can be mounted automatically.
- Terminals are highly resistant to external forces.
- Superior Q characteristics and the broadest L selections among peers.

APPLICATIONS

•Microtelevisions, Liquid crystal televisions. Car radios and car stereos,Television tuners ,Radio and other electronic devices,Video cameras, portable VCRs and Moblie Telephones.

PRODUCT IDENTIFICATION



01 Type	
ZFWI	Wire Wound Chip Ferrite Inductor

02 External Dimensions (LxW)(mm)	
0603 [0201]	0.6x 0.3
0805[0302]	0.8x 0.5
1005[0402]	1.0 x 0.5
1608 [0603]	1.6 x 0.8
2012 [0805]	2.0 x 1.25

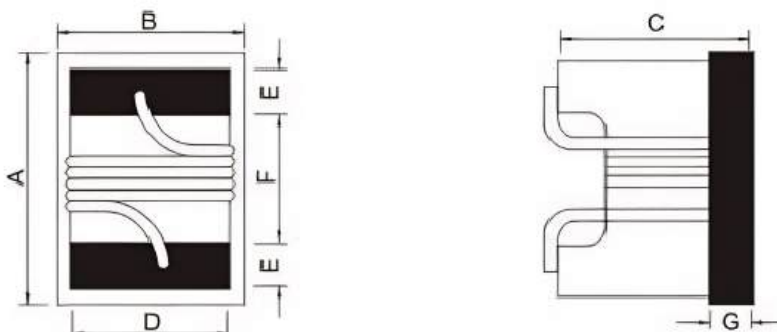
03 Nominal Inductance	
Example	Nominal value
2R2	2.2uH
220	22uH
221	220uH

04 Tolerance	
F	±1%
G	±2%
J	±5%
K	±10%

05 Performance Code
S,G

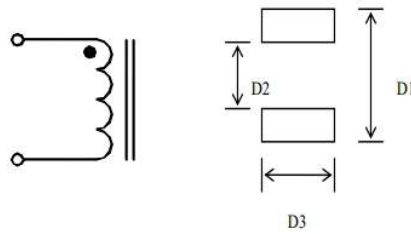
06 Packing	
T	Tape & Reel

SHAPE AND DIMENSIONS



Part Number	Dimensions(mm)					
	A Max	B Max	C Max	D Max	E Max	F Max
ZFWI0603	1.80	1.20	1.10	0.85	0.40	0.92
ZFWI0805	2.30	1.70	1.45	1.38	0.60	1.03
ZFWI1008	2.80	2.70	2.10	2.20	0.60	1.50
ZFWI1210	3.50	2.90	2.25	2.50	0.60	2.20
ZFWI1812	4.80	3.40	3.15	2.60	0.70	3.00

RECOMMENDED PC BOARD PATTERN



Part Number	Dimensions(mm)		
	D1	D2	D3
ZFWI0603	1.92	0.64	1.02
ZFWI0805	2.80	0.76	1.78
ZFWI1008	3.30	1.27	2.54
ZFWI1210	3.90	1.80	2.54
ZFWI1812	5.28	3.00	3.05

SPECIFICATIONS

● ZFWI0603 TYPE

Part Number	Inductance (uH)	Tolerance	Qmin	L Q Test condition (MHz/V)	SRFmin(MHz)	DCR Max(Ω)	Rated Current Max (mA)
ZFWI0603-1R0	1.0	J、K	10	7.96/0.05	240	0.75	300
ZFWI0603-1R2	1.2	J、K	10	7.96/0.05	210	0.80	290
ZFWI0603-1R5	1.5	J、K	10	7.96/0.05	190	0.87	280
ZFWI0603-1R8	1.8	J、K	10	7.96/0.05	170	0.90	280
ZFWI0603-2R2	2.2	J、K	10	7.96/0.05	150	1.20	250
ZFWI0603-2R7	2.7	J、K	10	7.96/0.05	135	1.35	240

Part Number	Inductance (uH)	Tolerance	Qmin	L Q Test condition (MHz/V)	SRFmin(MHz)	DCR Max(Ω)	Rated Current Max (mA)
ZFWI0603-3R3	3.3	J、K	10	7.96/0.05	120	1.46	220
ZFWI0603-3R9	3.9	J、K	10	7.96/0.05	105	1.56	200
ZFWI0603-4R7	4.7	J、K	8	7.96/0.05	90	1.90	190
ZFWI0603-5R6	5.6	J、K	8	7.96/0.05	80	2.20	180
ZFWI0603-6R8	6.8	J、K	6	7.96/0.05	65	2.60	150
ZFWI0603-8R2	8.2	J、K	6	7.96/0.05	50	4.00	130
ZFWI0603-100	10	J、K	5	7.96/0.05	40	5.50	100

● ZFWI0805 TYPE

Part Number	Inductance (uH)	Tolerance	Qmin	L Q Test condition (MHz/V)	SRFmin(MHz)	DCR Max(Ω)	Rated Current Max (mA)
ZFWI0805-1R2	1.2	J、K	15	7.96/0.05	350	1.05	170
ZFWI0805-1R5	1.5	J、K	15	7.96/0.05	300	1.2	170
ZFWI0805-1R8	1.8	J、K	15	7.96/0.05	260	1.35	170
ZFWI0805-2R2	2.2	J、K	15	7.96/0.05	200	1.50	400
ZFWI0805-2R7	2.7	J、K	15	7.96/0.05	160	1.70	380
ZFWI0805-3R3	3.3	J、K	15	7.96/0.05	130	1.80	360
ZFWI0805-3R9	3.9	J、K	15	7.96/0.05	115	1.95	340
ZFWI0805-4R7	4.7	J、K	15	7.96/0.05	105	2.05	320
ZFWI0805-5R6	5.6	J、K	15	7.96/0.05	80	2.30	170
ZFWI0805-6R8	6.8	J、K	15	7.96/0.05	70	2.60	160
ZFWI0805-7R5	7.5	J、K	15	7.96/0.05	60	2.80	150
ZFWI0805-8R2	8.2	J、K	15	7.96/0.05	55	3.00	140
ZFWI0805-100	10	J、K	10	7.96/0.05	40	3.20	140
ZFWI0805-150	15	J、K	8	7.96/0.05	16	4.00	100

● ZFWI1008 TYPE

Part Number	Inductance (uH)	Tolerance	Qmin	L Q Test condition (MHz/V)	SRFmin(MHz)	DCR Max(Ω)	Rated Current Max (mA)
ZFWI1008-1R0	1.0	G、J、K	20	7.96/0.05	250	0.78	420
ZFWI1008-1R2	1.2	G、J、K	20	7.96/0.05	250	0.75	420
ZFWI1008-1R5	1.5	G、J、K	20	7.96/0.05	230	.080	320
ZFWI1008-1R8	1.8	G、J、K	20	7.96/0.05	210	0.95	260
ZFWI1008-2R2	2.2	G、J、K	20	7.96/0.05	150	1.30	250
ZFWI1008-2R7	2.7	G、J、K	20	7.96/0.05	125	1.40	240
ZFWI1008-3R3	3.3	G、J、K	20	7.96/0.05	90	1.50	230
ZFWI1008-3R9	3.9	G、J、K	20	7.96/0.05	85	1.55	210
ZFWI1008-4R7	4.7	G、J、K	20	7.96/0.05	55	1.75	200
ZFWI1008-5R6	5.6	G、J、K	18	7.96/0.05	50	1.90	190
ZFWI1008-6R8	6.8	G、J、K	18	7.96/0.05	50	2.00	175
ZFWI1008-8R2	8.2	G、J、K	18	7.96/0.05	30	2.20	160
ZFWI1008-100	10	J、K	15	2.52/0.05	30	2.50	155
ZHWI1008-150	15	J、K	15	2.52/0.05	23	3.00	130
ZHWI1008-220	22	J、K	15	2.52/0.05	23	3.90	105
ZHWI1008-330	33	J、K	12	2.52/0.05	8	4.80	85
ZHWI1008-470	47	J、K	12	2.52/0.05	7	5.70	60
ZHWI1008-680	68	J、K	12	2.52/0.05	7.1	6.70	50
ZHWI1008-101	100	J、K	10	1.00/0.05	4.5	11.0	40

● ZFWI1210 TYPE

Part Number	Inductance (uH)	Tolerance	Qmin	L Q Test condition (MHz/V)	SRFmin(MHz)	DCR Max(Ω)	Rated Current Max (mA)
ZFWI1210-1R0	1.0	G、J、K	15	7.96/0.05	210	0.3	450
ZFWI1210-1R2	1.2	G、J、K	15	7.96/0.05	210	0.3	450
ZFWI1210-1R5	1.5	G、J、K	15	7.96/0.05	200	0.4	450
ZFWI1210-1R8	1.8	G、J、K	15	7.96/0.05	195	0.5	450
ZFWI1210-2R2	2.2	G、J、K	15	7.96/0.05	175	0.6	450
ZFWI1210-2R7	2.7	G、J、K	15	7.96/0.05	120	0.7	420
ZFWI1210-3R3	3.3	G、J、K	15	7.96/0.05	100	1.1	380



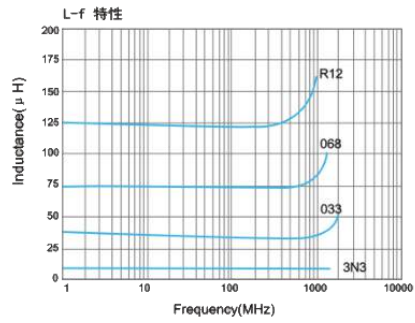
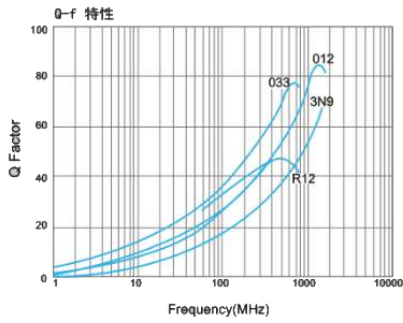
Part Number	Inductance (uH)	Tolerance	Qmin	L Q Test condition (MHz/V)	SRFmin(MHz)	DCR Max(Ω)	Rated Current Max (mA)
ZFWI1210-3R9	3.9	G、J、K	15	7.96/0.05	90	1.2	360
ZFWI1210-4R7	4.7	G、J、K	15	7.96/0.05	85	1.3	350
ZFWI1210-5R6	5.6	G、J、K	15	7.96/0.05	55	2.0	320
ZFWI1210-6R8	6.8	G、J、K	15	7.96/0.05	50	1.5	310
ZFWI1210-8R2	8.2	G、J、K	15	7.96/0.05	40	1.6	305
ZFWI1210-100	10	J、K	15	2.52/0.05	40	1.0	300
ZFWI1210-120	10	J、K	15	2.52/0.05	28	1.2	265
ZFWI1210-150	15	J、K	15	2.52/0.05	22	2.0	225
ZFWI1210-180	18	J、K	15	2.52/0.05	22	2.1	210
ZFWI1210-200	20	J、K	15	2.52/0.05	22	2.2	200
ZFWI1210-220	22	J、K	15	2.52/0.05	22	2.2	200
ZFWI1210-270	27	J、K	15	2.52/0.05	20	2.6	180
ZFWI1210-330	33	J、K	15	2.52/0.05	15	3.3	160
ZFWI1210-390	39	J、K	15	2.52/0.05	16	4.2	150
ZFWI1210-470	47	J、K	15	2.52/0.05	10	4.8	140
ZFWI1210-560	56	J、K	15	2.52/0.05	8.0	5.1	125
ZFWI1210-680	68	J、K	12	2.52/0.05	5.0	5.3	110
ZFWI1210-820	82	J、K	12	1.00/0.05	5.0	5.6	100
ZFWI1210-101	100	J、K	12	1.00/0.05	5.0	6.8	95
ZFWI1210-121	120	J、K	12	1.00/0.05	4.0	7.5	85
ZFWI1210-151	150	J、K	12	1.00/0.05	4.0	8.2	80
ZFWI1210-181	180	J、K	12	1.00/0.05	3.0	14.0	70
ZFWI1210-221	220	J、K	10	1.00/0.05	2.6	15.3	65
ZFWI1210-271	270	J、K	10	1.00/0.05	2.5	16.4	60
ZFWI1210-331	330	J、K	10	1.00/0.05	2.3	129.0	55
ZFWI1210-391	390	J、K	10	1.00/0.05	2.2	20.5	45
ZFWI1210-471	470	J、K	10	1.00/0.05	2.0	22.5	40

● ZFWI1812 TYPE

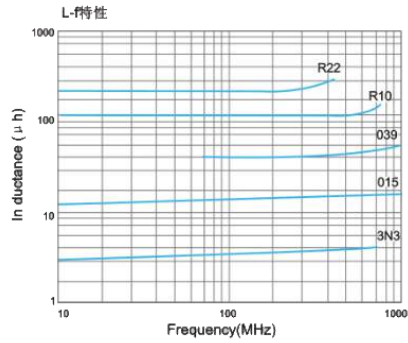
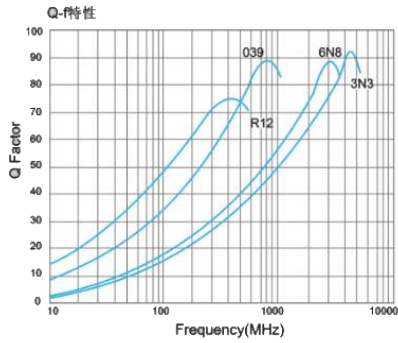
Part Number	Inductance (uH)	Tolerance	Qmin	L Q Test condition (MHz/V)	SRFmin(MHz)	DCR Max(Ω)	Rated Current Max (mA)
ZFWI1812-1R0	1.0	G、J、K	25	7.96/0.05	200	0.22	750
ZFWI1812-1R2	1.2	G、J、K	30	7.96/0.05	200	0.30	1000
ZFWI1812-1R5	1.5	G、J、K	30	7.96/0.05	180	0.32	1000
ZFWI1812-1R8	1.8	G、J、K	35	7.96/0.05	180	0.35	950
ZFWI1812-2R2	2.2	G、J、K	35	7.96/0.05	160	0.37	900
ZFWI1812-2R7	2.7	G、J、K	35	7.96/0.05	150	0.37	850
ZFWI1812-3R3	3.3	G、J、K	35	7.96/0.05	145	0.48	800
ZFWI1812-3R9	3.9	G、J、K	35	7.96/0.05	135	0.60	750
ZFWI1812-4R7	4.7	G、J、K	35	7.96/0.05	120	1.00	700
ZFWI1812-5R6	5.6	G、J、K	30	7.96/0.05	110	0.55	650
ZFWI1812-6R8	6.8	G、J、K	30	7.96/0.05	80	0.80	600
ZFWI1812-8R2	8.2	G、J、K	25	7.96/0.05	70	0.82	600
ZFWI1812-100	10	J、K	20	2.52/0.05	65	1.0	550
ZFWI1812-120	12	J、K	20	2.52/0.05	55	1.0	550
ZFWI1812-150	15	J、K	18	2.52/0.05	42	1.2	500
ZFWI1812-180	18	J、K	18	2.52/0.05	19	1.2	400
ZFWI1812-220	22	J、K	18	2.52/0.05	20	1.3	450
ZFWI1812-330	33	J、K	18	2.52/0.05	20	1.5	400
ZFWI1812-390	39	J、K	18	2.52/0.05	18	1.7	350
ZFWI1812-560	47	J、K	18	2.52/0.05	10	2.0	300
ZFWI1812-680	68	J、K	16	2.52/0.05	5.4	2.4	260
ZFWI1812-820	82	J、K	16	2.52/0.05	5.2	2.8	240
ZFWI1812-101	100	J、K	12	0.796/0.05	4.0	3.0	220
ZFWI1812-151	150	J、K	10	0.796/0.05	3.0	3.7	200
ZFWI1812-221	220	J、K	10	0.796/0.05	2.5	7.0	170
ZFWI1812-331	330	J、K	10	0.796/0.05	2.0	8.5	130
ZFWI1812-471	470	J、K	8	0.796/0.05	1.6	10.4	100
ZFWI1812-561	560	J、K	8	0.796/0.05	1.5	12.0	90
ZFWI1812-681	680	J、K	8	0.796/0.05	1.5	14.0	75
ZFWI1812-821	820	J、K	8	0.796/0.05	1.5	15.0	60
ZFWI1812-102	1000	J、K	8	0.252/0.05	1.4	16.5	50

DETAIL ELECTRICAL CHARACTERISTICS

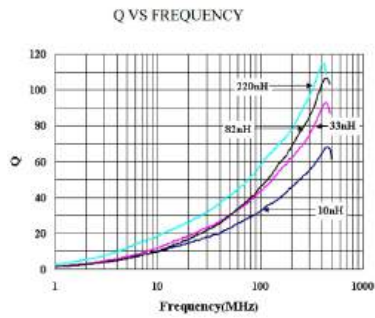
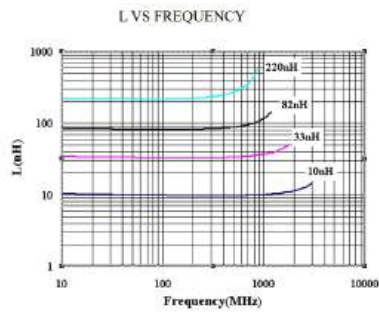
● ZHWI0603



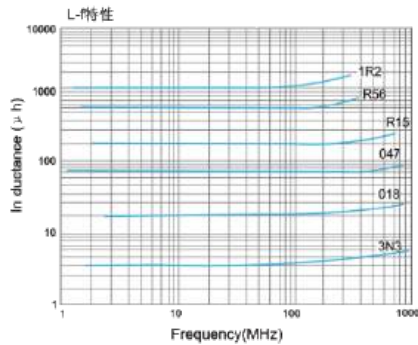
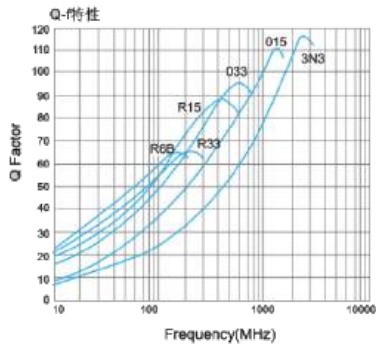
● ZHWI0805



● ZHWI1008



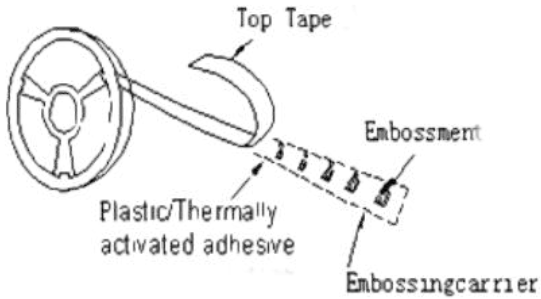
● ZHWI1210



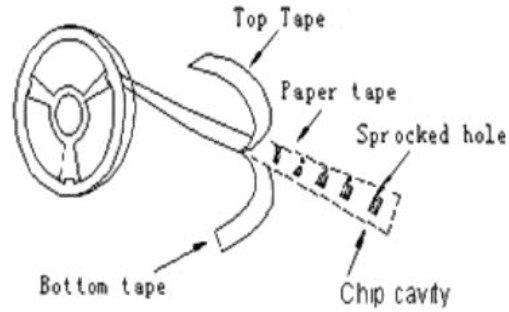
PACKAGING STYLE

• Taping Material

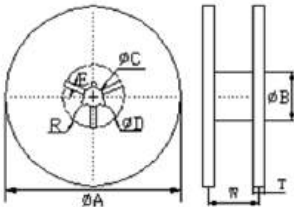
Embossing Tape



Paper Tape



• Reel Dimensions(mm)



Tape Width	A	B	C	D	E	W	T	R
8mm	178±2	60±1	13±0.5	21±0.8	2±0.5	10±1	1.5±0.5	1
12mm	178±2	60±1	13±0.5	21±0.8	2±0.5	14±1	1.5±0.5	1

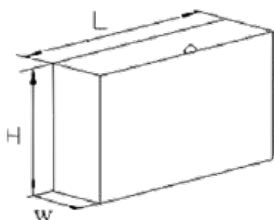
STORAGE

• Quantity

Type	PCS/REEL	PCS/INNERBOX	PCS/OUTERBOX
0603	10000	50000	250000
1008	4000	50000	100000
1210	4000	20000	100000
1812	500	2000	10000

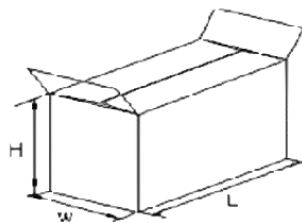
• Packing Dimensions(mm)

Inner Box Dimensions



L	W	H	THICK
180±3	70±3	190±3	2±0.8

Outer Box Dimensions



L	W	H	THICK
370±3	200±3	210±3	2±0.8

• Storage

Please be sure to the parts at 40°C, or less, 70%RH or less, and isolate the parts from sulphic and chloric atmosphere.