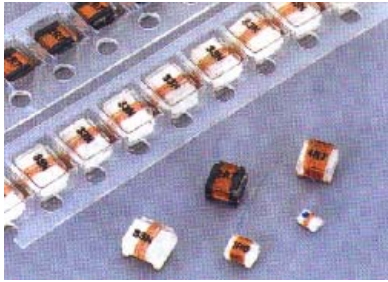


Wire wound chip inductors



Wire wound chip inductors are a perfect combination through combining high precision coil frameworks with established winding technology. Comparable with traditional inductors, they yield an improved technology, reduced volume and change the leads into a terminal electrode structure suitable for surface mounting by either reflow or IR method and even conductive epoxy mounting is acceptable.

Features:

- Minature size, suitable for SMT;
- Using terminal electrode structure to restrain the parasitic component effect commonly caused by wire leads
- Excellent in solderability and heat resistance
- Good frequency response due to special property and intense ability to resist interference.

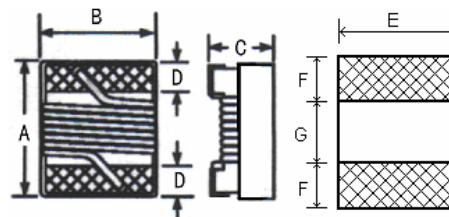
Application:

- PDA; Portable communication equipment and PDA
- High speed electronic devices
- Used for radiation high speed noise suppression.

Part Number System

FHW	0805	UC	068	J	G	T		
①	②	③	④	⑤	⑥	⑦		
Code	Dimensions (L×W) (mm)		Material	(nH) Inductance		(%) Tolerance	Terminal Material	Packaging Style
FHW	0402	1.0×0.5	UC	1N0	1.0	F ±1	G Gold	T Tape&Reel
	0603	1.6×0.8	HC IC	010	10	G ±2	S Tin	B Bulk
	0805	2.0×1.2	UF IF	R10	100	J ±5		
	1008	2.5×2.0		1R0	1000	K ±10		
	1210	3.2×2.5		100	10000	M ±20		
	1812	4.5×3.2		101	100000			

Dimensions



(Unit): mm

Size	A(max)	B(max)	C(max)	D(max)	E(max)	F(max)	G(max)
0402	1.30	0.70	0.70	0.28	0.69	0.45	0.69
0603	1.78	1.10	0.95	0.35	1.12	0.69	0.69
0805	2.30	1.70	1.40	0.57	1.88	1.07	0.81
1008	2.75	2.70	2.10	0.57	2.64	1.07	1.32
1210	3.50	2.90	2.25	0.57	2.64	1.07	1.83
1812	4.80	3.40	3.15	0.72	3.15	1.19	3.05

Electrical Characteristics

0402HC

Part Number	Inductance (nH)	Q (min)	SRF (MHz)	Max Rdc (Ω)	Idc (mA)	Part Number	Inductance (nH)	Q (min)	SRF (MHz)	Max Rdc (Ω)	Idc (mA)
FHW0402HC1N0□GT	1.0 ± 10% @250MHz	16	>6000	0.045	1360	FHW0402HC012□GT	12 ± 5% @250MHz	24	3600	0.120	640
FHW0402HC2N0□GT	2.0 ± 10% @250MHz	16	>6000	0.070	1040	FHW0402HC015□GT	15 ± 5% @250MHz	24	3280	0.172	560
FHW0402HC2N2□GT	2.2 ± 10% @250MHz	19	>6000	0.070	960	FHW0402HC019□GT	19 ± 5% @250MHz	24	3040	0.202	480
FHW0402HC3N3□GT	3.3 ± 10% @250MHz	19	6000	0.066	840	FHW0402HC023□GT	23 ± 5% @250MHz	24	2720	0.214	400
FHW0402HC3N6□GT	3.6 ± 10% @250MHz	19	6000	0.066	840	FHW0402HC027□GT	27 ± 5% @250MHz	24	2480	0.298	400
FHW0402HC3N9□GT	3.9 ± 10% @250MHz	19	5800	0.066	840	FHW0402HC036□GT	36 ± 5% @250MHz	24	2320	0.403	320
FHW0402HC5N1□GT	5.1 ± 10% @250MHz	20	5800	0.083	800	FHW0402HC039□GT	39 ± 5% @250MHz	25	2100	0.550	200
FHW0402HC5N6□GT	5.6 ± 10% @250MHz	20	5800	0.083	760	FHW0402HC040□GT	40 ± 5% @250MHz	24	2240	0.440	320
FHW0402HC6N2□GT	6.2 ± 10% @250MHz	20	5800	0.083	760	FHW0402HC043□GT	43 ± 5% @250MHz	25	2030	0.810	100
FHW0402HC7N5□GT	7.5 ± 10% @250MHz	22	5800	0.104	680	FHW0402HC047□GT	47 ± 5% @250MHz	20	2100	0.830	150
FHW0402HC8N2□GT	8.2 ± 10% @250MHz	22	4400	0.104	680	FHW0402HC051□GT	51 ± 5% @250MHz	25	1750	0.820	100
FHW0402HC9N0□GT	9.0 ± 10% @250MHz	22	4160	0.104	680	FHW0402HC056□GT	56 ± 5% @250MHz	22	1760	0.970	100
FHW0402HC011□GT	11 ± 10% @250MHz	24	3680	0.120	640	FHW0402HC068□GT	68 ± 5% @250MHz	22	1620	1.120	100

0603UC

Part Number	Inductance (nH)	Q (min)	SRF (MHz)	Max Rdc (Ω)	Idc (mA)	Part Number	Inductance (nH)	Q (min)	SRF (MHz)	Max Rdc (Ω)	Idc (mA)
FHW0603UC1N6□GT	1.6 ± 10% @250MHz	18	12500	0.030	700	FHW0603UC030□GT	30 ± 5% or ± 2% @250MHz	37	2250	0.220	600
FHW0603UC1N8□GT	1.8 ± 10% @250MHz	16	12500	0.045	700	FHW0603UC033□GT	33 ± 5% or ± 2% @250MHz	36	2300	0.220	600
FHW0603UC3N6□GT	3.6 ± 10% @250MHz	22	5900	0.075	700	FHW0603UC036□GT	36 ± 5% or ± 2% @250MHz	36	2080	0.250	600
FHW0603UC3N9□GT	3.9 ± 10% @250MHz	22	6900	0.080	700	FHW0603UC039□GT	39 ± 5% or ± 2% @250MHz	40	2200	0.250	600
FHW0603UC4N3□GT	4.3 ± 10% @250MHz	22	5900	0.075	700	FHW0603UC043□GT	43 ± 5% or ± 2% @250MHz	36	2000	0.280	600
FHW0603UC4N7□GT	4.7 ± 10% @250MHz	20	5800	0.116	700	FHW0603UC047□GT	47 ± 5% or ± 2% @200MHz	36	2000	0.280	600
FHW0603UC5N1□GT	5.1 ± 10% @250MHz	20	5700	0.120	700	FHW0603UC056□GT	56 ± 5% or ± 2% @200MHz	38	1900	0.280	600
FHW0603UC6N8□GT	6.8 ± 10% @250MHz	27	5800	0.110	700	FHW0603UC068□GT	68 ± 5% or ± 2% @200MHz	36	1700	0.340	600
FHW0603UC7N5□GT	7.5 ± 10% @250MHz	28	4800	0.110	700	FHW0603UC072□GT	72 ± 5% or ± 2% @150MHz	34	1700	0.530	400
FHW0603UC8N7□GT	8.7 ± 10% @250MHz	28	4600	0.120	700	FHW0603UC082□GT	82 ± 5% or ± 2% @150MHz	34	1700	0.550	400
FHW0603UC9N5□GT	9.5 ± 10% @250MHz	26	5400	0.135	700	FHW0603UCR10□GT	100 ± 5% or ± 2% @150MHz	30	1400	0.630	400
FHW0603UC010□GT	10 ± 5% @250MHz	31	4800	0.130	700	FHW0603UCR11□GT	110 ± 5% or ± 2% @150MHz	32	1350	0.670	300
FHW0603UC011□GT	11 ± 5% or ± 2% @250MHz	33	4000	0.130	700	FHW0603UCR12□GT	120 ± 5% or ± 2% @150MHz	32	1300	0.730	300
FHW0603UC012□GT	12 ± 5% or ± 2% @250MHz	35	4000	0.130	700	FHW0603UCR15□GT	150 ± 5% or ± 2% @150MHz	28	990	0.800	280
FHW0603UC015□GT	15 ± 5% or ± 2% @250MHz	30	4000	0.150	700	FHW0603UCR18□GT	180 ± 10% or ± 5% @100MHz	25	990	1.050	240
FHW0603UC016□GT	16 ± 5% or ± 2% @250MHz	34	3300	0.160	700	FHW0603UCR22□GT	220 ± 10% or ± 5% @100MHz	25	900	1.600	200
FHW0603UC018□GT	18 ± 5% or ± 2% @250MHz	35	3100	0.170	700	FHW0603UCR27□GT	270 ± 10% or ± 5% @100MHz	24	520	1.400	170
FHW0603UC022□GT	22 ± 5% or ± 2% @250MHz	38	3000	0.190	700	FHW0603UCR33□GT	330 ± 10% or ± 5% @100MHz	24	500	1.600	160
FHW0603UC024□GT	24 ± 5% or ± 2% @250MHz	37	2650	0.200	700	FHW0603UCR39□GT	390 ± 10% or ± 5% @100MHz	24	400	2.200	150
FHW0603UC027□GT	27 ± 5% or ± 2% @250MHz	36	2800	0.220	600						

0805UC

Part Number	Inductance (nH)	Q (min)	SRF (MHz)	Max Rdc (Ω)	Idc (mA)	Part Number	Inductance (nH)	Q (min)	SRF (MHz)	Max Rdc (Ω)	Idc (mA)
FHW0805UC2N2□GT	2.2 ± 10% @250MHz	50 @1500MHz	8500	0.030	800	FHW0805UCR12□GT	120 ± 5% or ± 2% @150MHz	45 @250MHz	1100	0.510	400
FHW0805UC2N7□GT	2.7 ± 10% @250MHz	50 @1500MHz	8000	0.045	800	FHW0805UCR15□GT	150 ± 5% or ± 2% @100MHz	45 @250MHz	920	0.560	400
FHW0805UC3N3□GT	3.3 ± 10% @250MHz	35 @1500MHz	7900	0.090	600	FHW0805UCR18□GT	180 ± 5% or ± 2% @100MHz	45 @250MHz	870	0.640	400
FHW0805UC5N6□GT	5.6 ± 10% @250MHz	50 @1000MHz	5500	0.065	600	FHW0805UCR20□GT	200 ± 5% or ± 2% @100MHz	40 @250MHz	850	1.000	400
FHW0805UC6N8□GT	6.8 ± 10% @250MHz	50 @1000MHz	5500	0.110	600	FHW0805UCR22□GT	220 ± 5% or ± 2% @100MHz	40 @250MHz	850	1.050	400
FHW0805UC8N2□GT	8.2 ± 5% @250MHz	35 @1000MHz	4700	0.200	600	FHW0805UCR27□GT	270 ± 5% or ± 2% @100MHz	40 @250MHz	650	1.100	350
FHW0805UC010□GT	10 ± 5% @250MHz	50 @500MHz	4200	0.150	600	FHW0805UCR33□GT	330 ± 5% or ± 2% @100MHz	40 @250MHz	600	1.400	310
FHW0805UC012□GT	12 ± 5% or ± 2% @250MHz	50 @500MHz	4000	0.150	600	FHW0805UCR39□GT	390 ± 5% or ± 2% @100MHz	40 @250MHz	560	1.500	290
FHW0805UC015□GT	15 ± 5% or ± 2% @250MHz	45 @500MHz	3400	0.170	600	FHW0805UCR47□GT	470 ± 5% or ± 2% @50MHz	33 @100MHz	375	2.000	250
FHW0805UC018□GT	18 ± 5% or ± 2% @250MHz	50 @500MHz	3300	0.200	600	FHW0805UCR56□GT	560 ± 10% or ± 5% @25MHz	23 @50MHz	340	1.900	230
FHW0805UC022□GT	22 ± 5% or ± 2% @250MHz	55 @500MHz	2600	0.220	500	FHW0805UCR62□GT	620 ± 10% or ± 5% @25MHz	23 @50MHz	320	2.080	200
FHW0805UC027□GT	27 ± 5% or ± 2% @250MHz	55 @500MHz	2500	0.250	500	FHW0805UCR68□GT	680 ± 10% or ± 5% @25MHz	23 @50MHz	300	2.100	190
FHW0805UC033□GT	33 ± 5% or ± 2% @250MHz	55 @500MHz	2050	0.270	500	FHW0805UCR75□GT	750 ± 10% or ± 5% @25MHz	23 @50MHz	280	2.120	180
FHW0805UC039□GT	39 ± 5% or ± 2% @250MHz	55 @500MHz	2000	0.290	500	FHW0805UCR82□GT	820 ± 10% or ± 5% @25MHz	23 @50MHz	250	2.140	180
FHW0805UC047□GT	47 ± 5% or ± 2% @200MHz	55 @500MHz	1650	0.310	500	FHW0805UCR91□GT	910 ± 10% or ± 5% @25MHz	20 @50MHz	220	2.280	180
FHW0805UC056□GT	56 ± 5% or ± 2% @200MHz	55 @500MHz	1550	0.340	500	FHW0805UCR10□GT	1000 ± 10% or ± 5% @25MHz	20 @50MHz	200	2.400	170
FHW0805UC062□GT	62 ± 5% or ± 2% @200MHz	55 @500MHz	1500	0.380	500	FHW0805UCR12□GT	1200 ± 10% or ± 5% @7.9MHz	18 @50MHz	180	2.550	170
FHW0805UC068□GT	68 ± 5% or ± 2% @200MHz	55 @500MHz	1450	0.380	500	FHW0805UCR15□GT	1500 ± 10% or ± 5% @7.9MHz	18 @50MHz	170	2.800	160
FHW0805UC082□GT	82 ± 5% or ± 2% @150MHz	55 @500MHz	1300	0.420	400	FHW0805UCR18□GT	1800 ± 10% or ± 5% @7.9MHz	18 @50MHz	140	3.800	150
FHW0805UCR10□GT	100 ± 5% or ± 2% @150MHz	50 @500MHz	1200	0.460	400						

□ Tolerance (F : ±1%, G : ±2%, J : ±5%, K : ±10%, M : ±20%)

1008UC

Part Number	Inductance (nH)	Q (min)	SRF (MHz)	Max Rdc (Ω)	Idc (mA)	Part Number	Inductance (nH)	Q (min)	SRF (MHz)	Max Rdc (Ω)	Idc (mA)
FHW1008UC3N9□GT	3.9 ± 10% @ 50MHz	50 @ 1500MHz	6000	0.035	1000	FHW1008UCR22□GT	220 ± 5% or ± 2% @ 25MHz	45 @ 100MHz	620	0.840	500
FHW1008UC4N7□GT	4.7 ± 10% @ 50MHz	50 @ 1500MHz	6000	0.045	1000	FHW1008UCR24□GT	240 ± 5% or ± 2% @ 25MHz	45 @ 100MHz	600	0.880	500
FHW1008UC5N6□GT	5.6 ± 10% @ 50MHz	50 @ 1000MHz	6000	0.080	1000	FHW1008UCR27□GT	270 ± 5% or ± 2% @ 25MHz	45 @ 100MHz	600	0.910	500
FHW1008UC8N2□GT	8.2 ± 10% @ 50MHz	50 @ 1000MHz	5000	0.050	1000	FHW1008UCR33□GT	330 ± 5% or ± 2% @ 25MHz	45 @ 100MHz	500	1.050	450
FHW1008UC010□GT	10 ± 5% or ± 2% @ 50MHz	50 @ 500MHz	4100	0.080	1000	FHW1008UCR39□GT	390 ± 5% or ± 2% @ 25MHz	45 @ 100MHz	480	1.120	470
FHW1008UC012□GT	12 ± 5% or ± 2% @ 50MHz	50 @ 500MHz	3300	0.090	1000	FHW1008UCR47□GT	470 ± 5% or ± 2% @ 25MHz	45 @ 100MHz	450	1.190	470
FHW1008UC015□GT	15 ± 5% or ± 2% @ 50MHz	45 @ 500MHz	2500	0.100	1000	FHW1008UCR56□GT	560 ± 5% or ± 2% @ 25MHz	45 @ 100MHz	415	1.330	400
FHW1008UC018□GT	18 ± 5% or ± 2% @ 50MHz	50 @ 350MHz	2500	0.110	1000	FHW1008UCR62□GT	620 ± 5% or ± 2% @ 25MHz	45 @ 100MHz	375	1.400	400
FHW1008UC022□GT	22 ± 5% or ± 2% @ 50MHz	55 @ 350MHz	2400	0.120	1000	FHW1008UCR68□GT	680 ± 5% or ± 2% @ 25MHz	45 @ 100MHz	375	1.470	400
FHW1008UC027□GT	27 ± 5% or ± 2% @ 50MHz	55 @ 350MHz	1600	0.130	1000	FHW1008UCR75□GT	750 ± 5% or ± 2% @ 25MHz	45 @ 100MHz	360	1.540	360
FHW1008UC033□GT	33 ± 5% or ± 2% @ 50MHz	60 @ 350MHz	1600	0.140	1000	FHW1008UCR82□GT	820 ± 5% or ± 2% @ 25MHz	45 @ 100MHz	250	1.610	400
FHW1008UC039□GT	39 ± 5% or ± 2% @ 50MHz	60 @ 350MHz	1500	0.150	1000	FHW1008UCR91□GT	910 ± 5% or ± 2% @ 25MHz	35 @ 50MHz	220	1.680	380
FHW1008UC047□GT	47 ± 5% or ± 2% @ 50MHz	65 @ 350MHz	1500	0.160	1000	FHW1008UC1R0□GT	1000 ± 5% or ± 2% @ 25MHz	35 @ 50MHz	210	1.750	370
FHW1008UC056□GT	56 ± 5% or ± 2% @ 50MHz	65 @ 350MHz	1100	0.180	1000	FHW1008UC1R2□GT	1200 ± 5% or ± 2% @ 7.9MHz	35 @ 50MHz	200	2.000	310
FHW1008UC062□GT	62 ± 5% or ± 2% @ 50MHz	65 @ 350MHz	1100	0.200	1000	FHW1008UC1R5□GT	1500 ± 5% or ± 2% @ 7.9MHz	28 @ 50MHz	180	2.300	330
FHW1008UC068□GT	68 ± 5% or ± 2% @ 50MHz	65 @ 350MHz	1000	0.200	1000	FHW1008UC1R8□GT	1800 ± 5% or ± 2% @ 7.9MHz	28 @ 50MHz	160	2.600	300
FHW1008UC075□GT	75 ± 5% or ± 2% @ 50MHz	60 @ 350MHz	1000	0.200	1000	FHW1008UC2R2□GT	2200 ± 5% or ± 2% @ 7.9MHz	20 @ 50MHz	90	2.800	280
FHW1008UC082□GT	82 ± 5% or ± 2% @ 50MHz	60 @ 350MHz	1000	0.220	1000	FHW1008UC2R7□GT	2700 ± 5% or ± 2% @ 7.9MHz	22 @ 25MHz	80	3.200	290
FHW1008UCR10□GT	100 ± 5% or ± 2% @ 25MHz	60 @ 350MHz	1000	0.560	650	FHW1008UC3R3□GT	3300 ± 5% or ± 2% @ 7.9MHz	22 @ 25MHz	70	3.400	290
FHW1008UCR12□GT	120 ± 5% or ± 2% @ 25MHz	60 @ 350MHz	950	0.630	650	FHW1008UC3R9□GT	3900 ± 5% or ± 2% @ 7.9MHz	16 @ 25MHz	60	3.600	260
FHW1008UCR15□GT	150 ± 5% or ± 2% @ 25MHz	45 @ 100MHz	800	0.700	580	FHW1008UC4R7□GT	4700 ± 5% or ± 2% @ 7.9MHz	18 @ 25MHz	60	4.000	260
FHW1008UCR18□GT	180 ± 5% or ± 2% @ 25MHz	45 @ 100MHz	640	0.770	620	FHW1008UC5R6□GT	5600 ± 5% or ± 2% @ 7.9MHz	18 @ 7.9MHz	55	7.600	240
FHW1008UCR20□GT	200 ± 5% or ± 2% @ 25MHz	45 @ 100MHz	620	0.800	550	FHW1008UC6R8□GT	6800 ± 5% or ± 2% @ 7.9MHz	18 @ 7.9MHz	50	8.200	200

1210HC

Part Number	Inductance (nH)	Q (min)	SRF (MHz)	Max Rdc (Ω)	Idc (mA)	Part Number	Inductance (nH)	Q (min)	SRF (MHz)	Max Rdc (Ω)	Idc (mA)
FHW1210HC3N9□GT	3.9 ± 5% @ 100MHz	30 @ 300MHz	6000	0.050	1000	FHW1210HCR22□GT	220 ± 5% or ± 2% @ 50MHz	60 @ 300MHz	650	0.320	670
FHW1210HC4N7□GT	4.7 ± 5% @ 100MHz	30 @ 300MHz	5800	0.065	1000	FHW1210HCR27□GT	270 ± 5% or ± 2% @ 50MHz	55 @ 300MHz	620	0.340	630
FHW1210HC8N2□GT	8.2 ± 5% @ 100MHz	30 @ 300MHz	5500	0.070	1000	FHW1210HCR33□GT	330 ± 5% or ± 2% @ 50MHz	45 @ 150MHz	600	0.380	590
FHW1210HC010□GT	10 ± 5% or ± 2% @ 100MHz	40 @ 300MHz	4000	0.080	1000	FHW1210HCR39□GT	390 ± 5% or ± 2% @ 50MHz	45 @ 150MHz	550	0.580	530
FHW1210HC012□GT	12 ± 5% or ± 2% @ 100MHz	40 @ 300MHz	3200	0.080	1000	FHW1210HCR47□GT	470 ± 5% or ± 2% @ 50MHz	45 @ 150MHz	500	0.800	490
FHW1210HC015□GT	15 ± 5% or ± 2% @ 100MHz	40 @ 300MHz	3200	0.100	1000	FHW1210HCR56□GT	560 ± 5% or ± 2% @ 35MHz	45 @ 150MHz	420	1.100	460
FHW1210HC018□GT	18 ± 5% or ± 2% @ 100MHz	50 @ 300MHz	2800	0.100	1000	FHW1210HCR68□GT	680 ± 5% or ± 2% @ 35MHz	45 @ 150MHz	400	1.200	430
FHW1210HC022□GT	22 ± 5% or ± 2% @ 100MHz	50 @ 300MHz	2200	0.100	1000	FHW1210HCR82□GT	820 ± 5% or ± 2% @ 35MHz	45 @ 150MHz	370	1.820	400
FHW1210HC027□GT	27 ± 5% or ± 2% @ 100MHz	50 @ 300MHz	1800	0.110	1000	FHW1210HC1R0□GT	1000 ± 5% or ± 2% @ 35MHz	45 @ 150MHz	340	1.850	320
FHW1210HC033□GT	33 ± 5% or ± 2% @ 100MHz	55 @ 300MHz	1800	0.110	1000	FHW1210HC1R2□GT	1200 ± 5% or ± 2% @ 35MHz	35 @ 150MHz	220	1.870	300
FHW1210HC039□GT	39 ± 5% or ± 2% @ 100MHz	55 @ 300MHz	1800	0.120	1000	FHW1210HC1R5□GT	1500 ± 5% or ± 2% @ 7.9MHz	30 @ 50MHz	160	1.950	310
FHW1210HC043□GT	43 ± 5% or ± 2% @ 100MHz	55 @ 300MHz	1500	0.120	1000	FHW1210HC1R8□GT	1800 ± 5% or ± 2% @ 7.9MHz	30 @ 50MHz	160	2.250	310
FHW1210HC047□GT	47 ± 5% or ± 2% @ 100MHz	55 @ 300MHz	1500	0.130	1000	FHW1210HC2R2□GT	2200 ± 5% or ± 2% @ 7.9MHz	30 @ 50MHz	160	2.410	310
FHW1210HC056□GT	56 ± 5% or ± 2% @ 100MHz	55 @ 300MHz	1450	0.140	1000	FHW1210HC2R7□GT	2700 ± 5% or ± 2% @ 7.9MHz	28 @ 25MHz	140	2.850	300
FHW1210HC068□GT	68 ± 5% or ± 2% @ 100MHz	55 @ 300MHz	1200	0.150	900	FHW1210HC3R3□GT	3300 ± 5% or ± 2% @ 7.9MHz	25 @ 25MHz	110	3.120	300
FHW1210HC082□GT	82 ± 5% or ± 2% @ 100MHz	55 @ 300MHz	1000	0.200	900	FHW1210HC3R9□GT	3900 ± 5% or ± 2% @ 7.9MHz	25 @ 25MHz	100	3.600	290
FHW1210HCR10□GT	100 ± 5% or ± 2% @ 100MHz	55 @ 300MHz	900	0.210	850	FHW1210HC4R7□GT	4700 ± 5% or ± 2% @ 7.9MHz	20 @ 25MHz	60	4.000	280
FHW1210HCR12□GT	120 ± 5% or ± 2% @ 100MHz	60 @ 300MHz	800	0.210	800	FHW1210HC5R6□GT	5600 ± 5% or ± 2% @ 7.9MHz	20 @ 7.9MHz	60	5.000	250
FHW1210HCR15□GT	150 ± 5% or ± 2% @ 100MHz	60 @ 300MHz	780	0.250	750	FHW1210HC6R8□GT	6800 ± 5% or ± 2% @ 7.9MHz	20 @ 7.9MHz	55	8.000	230
FHW1210HCR18□GT	180 ± 5% or ± 2% @ 50MHz	60 @ 300MHz	760	0.300	700	FHW1210HC8R6□GT	8600 ± 5% or ± 2% @ 7.9MHz	20 @ 7.9MHz	40	9.000	200

0805UF

Part Number	Inductance (μH)	Q (min)	Test Freq (Ls, Q)	SRF (MHz)	Max Rdc (Ω)	Idc (mA)	Part Number	Inductance (μH)	Q (min)	Test Freq (Ls, Q)	SRF (MHz)	Max Rdc (Ω)	Idc (mA)
FHW0805UF1R2□□T	1.2 ± 10% or ± 5%	15	7.96MHz	350	1.05	520	FHW0805UF3R3□□T	3.3 ± 10% or ± 5%	15	7.96MHz	130	1.80	360
FHW0805UF1R5□□T	1.5 ± 10% or ± 5%	15	7.96MHz	300	1.20	500	FHW0805UF3R9□□T	3.9 ± 10% or ± 5%	15	7.96MHz	115	1.95	340
FHW0805UF1R8□□T	1.8 ± 10% or ± 5%	15	7.96MHz	260	1.35	450	FHW0805UF4R7□□T	4.7 ± 10% or ± 5%	15	7.96MHz	105	2.05	320
FHW0805UF2R2□□T	2.2 ± 10% or ± 5%	15	7.96MHz	200	1.50	400	FHW0805UF5R6□□T	5.6 ± 10% or ± 5%	15	7.96MHz	80	2.30	300
FHW0805UF2R7□□T	2.7 ± 10% or ± 5%	15	7.96MHz	160	1.70	380	FHW0805UF6R8□□T	6.8 ± 10% or ± 5%	15	7.96MHz	70	2.60	270

□ Tolerance (F : ±1%, G : ±2%, J : ±5%, K : ±10%, M : ±20%)

□ Electrode material (G , S)

1008 IF

Part Number	Inductance (μ H)	Q (min)	Test Freq (Ls., Q)	SRF (MHz)	Max Rdc (Ω)	Idc (mA)	Part Number	Inductance (μ H)	Q (min)	Test Freq (Ls., Q)	SRF (MHz)	Max Rdc (Ω)	Idc (mA)
FHW1008IF1R2□□T	1.2±10%or±5%	20	7.96MHz	250	0.75	550	FHW1008IF6R8□□T	6.8±10%or±5%	18	7.96MHz	50	2.00	175
FHW1008IF1R5□□T	1.5±10%or±5%	20	7.96MHz	230	0.80	400	FHW1008IF8R2□□T	8.2±10%or±5%	18	7.96MHz	30	2.20	160
FHW1008IF1R8□□T	1.8±10%or±5%	20	7.96MHz	168	0.95	320	FHW1008IF100□□T	10±10%or±5%	15	2.52MHz	30	2.50	155
FHW1008IF2R2□□T	2.2±10%or±5%	20	7.96MHz	150	1.30	315	FHW1008IF150□□T	15±10%or±5%	15	2.52MHz	23	3.00	130
FHW1008IF2R7□□T	2.7±10%or±5%	20	7.96MHz	125	1.40	300	FHW1008IF220□□T	22±10%or±5%	15	2.52MHz	23	3.90	105
FHW1008IF3R3□□T	3.3±10%or±5%	20	7.96MHz	90	1.50	280	FHW1008IF330□□T	33±10%or±5%	12	2.52MHz	8	4.80	85
FHW1008IF3R9□□T	3.9±10%or±5%	20	7.96MHz	85	1.55	250	FHW1008IF470□□T	47±10%or±5%	12	2.52MHz	7	5.70	60
FHW1008IF4R7□□T	4.7±10%or±5%	20	7.96MHz	55	1.75	210	FHW1008IF680□□T	68±10%or±5%	12	2.52MHz	7.1	6.70	50
FHW1008IF5R6□□T	5.6±10%or±5%	18	7.96MHz	50	1.90	190	FHW1008IF101□□T	100±10%or±5%	10	0.796MHz	4.5	11.0	40

1210IF

Part Number	Inductance (μ H)	Q (min)	Test Freq (Ls., Q)	SRF (MHz)	Max Rdc (Ω)	Idc (mA)	Part Number	Inductance (μ H)	Q (min)	Test Freq (Ls., Q)	SRF (MHz)	Max Rdc (Ω)	Idc (mA)
FHW1210IF1R2□□T	1.2±10%or±5%	22	7.96MHz	210	0.3	450	FHW1210IF270□□T	27±10%or±5%	18	2.52MHz	20	2.6	180
FHW1210IF1R5□□T	1.5±10%or±5%	22	7.96MHz	200	0.4	450	FHW1210IF330□□T	33±10%or±5%	18	2.52MHz	15	2.9	160
FHW1210IF1R8□□T	1.8±10%or±5%	22	7.96MHz	195	0.5	450	FHW1210IF390□□T	39±10%or±5%	18	2.52MHz	16	4.2	150
FHW1210IF2R2□□T	2.2±10%or±5%	22	7.96MHz	175	0.6	450	FHW1210IF470□□T	47±10%or±5%	18	2.52MHz	10	4.8	140
FHW1210IF2R7□□T	2.7±10%or±5%	22	7.96MHz	120	0.7	420	FHW1210IF560□□T	56±10%or±5%	18	2.52MHz	8.0	5.1	125
FHW1210IF3R3□□T	3.3±10%or±5%	22	7.96MHz	100	1.1	380	FHW1210IF680□□T	68±10%or±5%	15	2.52MHz	5.0	4.7	110
FHW1210IF3R9□□T	3.9±10%or±5%	22	7.96MHz	90	1.2	360	FHW1210IF820□□T	82±10%or±5%	15	2.52MHz	5.0	5.6	100
FHW1210IF4R7□□T	4.7±10%or±5%	20	7.96MHz	85	1.3	350	FHW1210IF101□□T	100±10%or±5%	12	0.796MHz	5.0	6.8	95
FHW1210IF5R6□□T	5.6±10%or±5%	20	7.96MHz	55	2.0	320	FHW1210IF121□□T	120±10%or±5%	12	0.796MHz	4.0	7.1	85
FHW1210IF6R8□□T	6.8±10%or±5%	20	7.96MHz	40	1.5	310	FHW1210IF151□□T	150±10%or±5%	12	0.796MHz	4.0	8.2	80
FHW1210IF8R2□□T	8.2±10%or±5%	20	7.96MHz	40	1.6	305	FHW1210IF181□□T	180±10%or±5%	12	0.796MHz	3.0	14.0	70
FHW1210IF100□□T	10±10%or±5%	18	2.52MHz	40	1.0	300	FHW1210IF221□□T	220±10%or±5%	10	0.796MHz	2.6	15.3	65
FHW1210IF120□□T	12±10%or±5%	18	2.52MHz	28	1.2	265	FHW1210IF271□□T	270±10%or±5%	10	0.796MHz	2.5	16.4	60
FHW1210IF150□□T	15±10%or±5%	18	2.52MHz	22	2.0	225	FHW1210IF331□□T	330±10%or±5%	10	0.796MHz	2.3	19.0	55
FHW1210IF180□□T	18±10%or±5%	18	2.52MHz	22	2.1	210	FHW1210IF391□□T	390±10%or±5%	10	0.796MHz	2.2	20.5	45
FHW1210IF220□□T	22±10%or±5%	18	2.52MHz	22	2.2	200	FHW1210IF471□□T	470±10%or±5%	10	0.796MHz	2.0	22.5	40

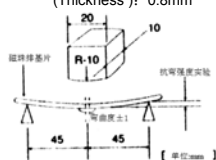
1812IF

Part Number	Inductance (μ H)	Q (min)	Test Freq (Ls., Q)	SRF (MHz)	Max Rdc (Ω)	Idc (mA)	Part Number	Inductance (μ H)	Q (min)	Test Freq (Ls., Q)	SRF (MHz)	Max Rdc (Ω)	Idc (mA)
FHW1812IF1R0□□T	1.0±10%or±5%	30	7.96MHz	200	0.22	1000	FHW1812IF390□□T	39±10%or±5%	18	2.52MH	14	1.8	350
FHW1812IF1R2□□T	1.2±10%or±5%	30	7.96MHz	200	0.30	1000	FHW1812IF470□□T	47±10%or±5%	16	2.52MH	10	2.0	300
FHW1812IF1R5□□T	1.5±10%or±5%	30	7.96MHz	180	0.32	1000	FHW1812IF560□□T	56±10%or±5%	16	2.52MH	10	2.2	290
FHW1812IF1R8□□T	1.8±10%or±5%	35	7.96MHz	160	0.35	950	FHW1812IF680□□T	68±10%or±5%	12	2.52MH	5.4	2.4	260
FHW1812IF2R2□□T	2.2±10%or±5%	35	7.96MHz	150	0.37	900	FHW1812IF820□□T	82±10%or±5%	12	2.52MH	5.2	2.8	240
FHW1812IF2R7□□T	2.7±10%or±5%	35	7.96MHz	145	0.37	850	FHW1812IF101□□T	100±10%or±5%	12	0.796M	4.0	3.0	220
FHW1812IF3R3□□T	3.3±10%or±5%	35	7.96MHz	140	0.48	800	FHW1812IF121□□T	120±10%or±5%	10	0.796M	3.3	3.3	220
FHW1812IF3R9□□T	3.9±10%or±5%	35	7.96MHz	135	0.60	750	FHW1812IF151□□T	150±10%or±5%	10	0.796M	3.0	3.7	200
FHW1812IF4R7□□T	4.7±10%or±5%	35	7.96MHz	120	1.00	700	FHW1812IF181□□T	180±10%or±5%	10	0.796M	3.0	4.0	200
FHW1812IF5R6□□T	5.6±10%or±5%	30	7.96MHz	110	0.55	650	FHW1812IF221□□T	220±10%or±5%	10	0.796M	2.5	7.0	170
FHW1812IF6R8□□T	6.8±10%or±5%	30	7.96MHz	80	0.80	600	FHW1812IF271□□T	270±10%or±5%	10	0.796M	2.2	7.6	160
FHW1812IF8R2□□T	8.2±10%or±5%	25	7.96MHz	70	0.85	600	FHW1812IF331□□T	330±10%or±5%	10	0.796M	2.0	8.5	150
FHW1812IF100□□T	10±10%or±5%	20	2.52MHz	65	1.0	550	FHW1812IF391□□T	390±10%or±5%	10	0.796M	1.8	9.2	130
FHW1812IF120□□T	12±10%or±5%	20	2.52MHz	55	1.1	550	FHW1812IF471□□T	470±10%	8	0.796M	1.6	10.4	120
FHW1812IF150□□T	15±10%or±5%	18	2.52MHz	42	1.2	500	FHW1812IF561□□T	560±10%	8	0.796M	1.5	12.0	110
FHW1812IF180□□T	18±10%or±5%	18	2.52MHz	29	1.2	500	FHW1812IF681□□T	680±10%	8	0.796M	1.5	14.0	100
FHW1812IF220□□T	22±10%or±5%	18	2.52MHz	20	1.3	450	FHW1812IF821□□T	820±10%	8	0.796M	1.5	15.0	95
FHW1812IF270□□T	27±10%or±5%	18	2.52MHz	20	1.5	400	FHW1812IF102□□T	1000±10%	6	0.252M	1.4	16.5	90
FHW1812IF330□□T	33±10%or±5%	18	2.52MHz	18	1.7	350							

□ Tolerance (F : ±1%, G : ±2%, J : ±5%, K : ±10%, M : ±20%)

□ Electrode material (G, S)

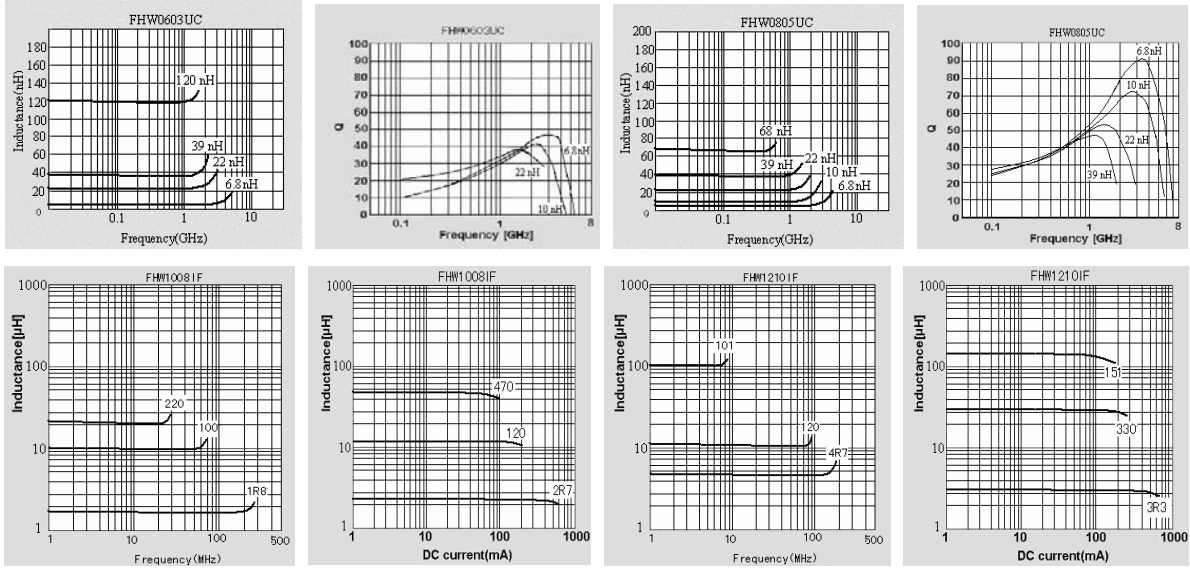
Reliability Test (Wire Wound Chip Inductors)

	Item	Specification		Test Method
		0402HC、0603UC、0805UC、1008UC、1210HC	0805UF、1008IF、1210IF、1812IF	
1	Operating Temperature Range	-40~+125℃	-40~+85℃	
2	Storage Temperature Range	-40~+125℃	-40~+85℃	
3	Rating current	200~1360mA(max)	40~600mA (max)	(current sources): 33010D
4	Inductance	1.0~8600nH	1.2~1000 μH	(Test Frequency): 0.252~250MHz (Test Equipment): HP4291A、HP4286A、HP4287A、HP4284A (Test Fixture): 16193A or 16334A
5	Q	16~65(min)	8~30 (min)	(Test Frequency): 0.252~1500MHz (Test Equipment): HP4291A、HP4286A、HP4287A (Test Fixture): 16193A 16334A
6	RDC	0.030~9.000 Ω (max)	0.22~22.5 (max)	(Test Equipment): HP4263B
7	SRF	40~12500MHz(min)	1.4~350MHz(min)	(Test Equipment): HP4291A (Test Fixture): 16193A
8	Solderability	The metalized area must have more then 90% of solder coverage		(Soldering Temp.): 230±5℃ (Dipping time): 5±1S
9	Resistance to Soldering heat	No evidence of mechanical damage The metalized area must have more then 75% of solder coverage ±5%. Inductance change less than ±5% Q ±10%. Q change less than ±10%		(Soldering Temp.): 260±5℃ (Dipping time): 10±1S
10	Thermal Shock	No evidence of mechanical damage ±5%. Inductance change less than ±5% Q ±10%. Q change less than ±10%		(A cycle contain): (Step 1): -40℃, 30Min (Step 2): 85℃, 30Min (Cycle Times): 10
11	High Temperature Storage	No evidence of mechanical damage ±5%. Inductance change less than ±5% Q ±10%. Q change less than ±10%		(Test Temperature): 125±2℃ (ceramic core) 85±2℃ (Ferrite core) (Test Time): 96±2 小时
12	Low Temperature Storage	No evidence of mechanical damage ±5%. Inductance change less than ±5% Q ±10%. Q change less than ±10%		(Test Temperature): -40±2℃ (Test Time): 96±2Hours
13	Static Humidity	No evidence of mechanical damage ±5%. Inductance change less than ±5% Q ±10%. Q change less than ±10%		Test Temperature): 50±2℃ (Test Time): 96±2 小时 90~95% (with rating current)
14	Vibration	No evidence of mechanical damage ±5%. Inductance change less than ±5% Q ±10%. Q change less than ±10%		(Amplitude): 1.5mm X、Y、Z 1 45 (Frequency range): 10~55~10Hz(min)
15	Component Adhesion	No evidence of peel off or broken		(Force): 4 Lbs (Test Time): 10S
16	Resistance to Bend	No evidence of mechanical damage		(camber): 20mm (Test Board): (Glass-Epoxy board) (Thickness): 0.8mm 
17	Life	Inductor shall not have a shorted or openwinding		(Test Temperature): 85±2℃ (Test Time): 1000Hours (With rating current)

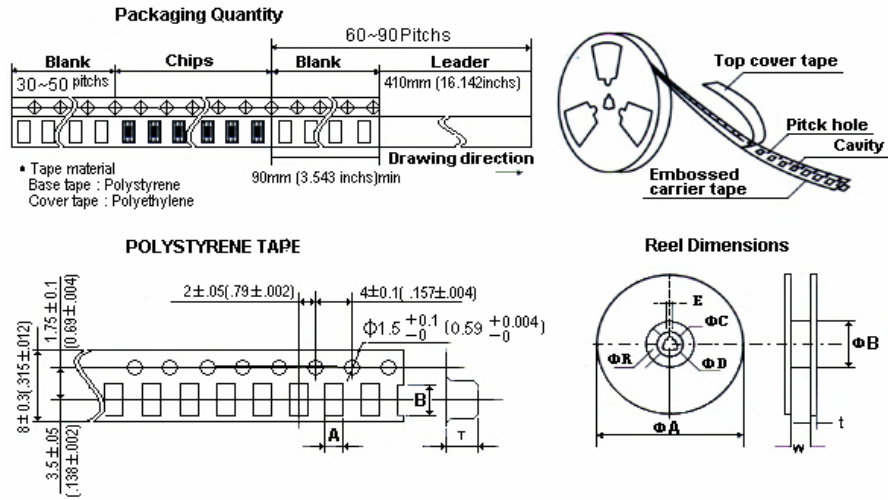
Note: Electrical Characteristic are to be tested after 24±2 hours at standard (room) conditions.

Characteristic Curve

■ Frequency Characteristic



Packaging Style



All dimensions shown in millimeters

	A	B	T
0402	0.650	1.150	0.800
0603	1.346	2.134	0.991
0805	2.000	2.500	1.550
1008	2.940	3.170	2.230
1210	3.099	3.327	2.438
1812	3.500	4.900	3.100

unit	ΦA	ΦB	ΦC	ΦD	E	W	t	R
mm	178	60	13	21	2	10	2	1
	330	75	13	23	2	12	2	1

Packaging Quantity

Chip Size	0402	0603	0805	1008	1210	1812
Quantity	2000	2000	2000	2000	2000	2000