Ferrite Core Wound Chip Inductor

FEATURES

- Core winding method, high Q value
- High current, low DC resistance
- The self-harmonic frequency is higher

APPLICATIONS

- Suitable for electronic equipment information processing system

PRODUCT IDENTIFICATION

SKFWI 1008 — 4R7 K

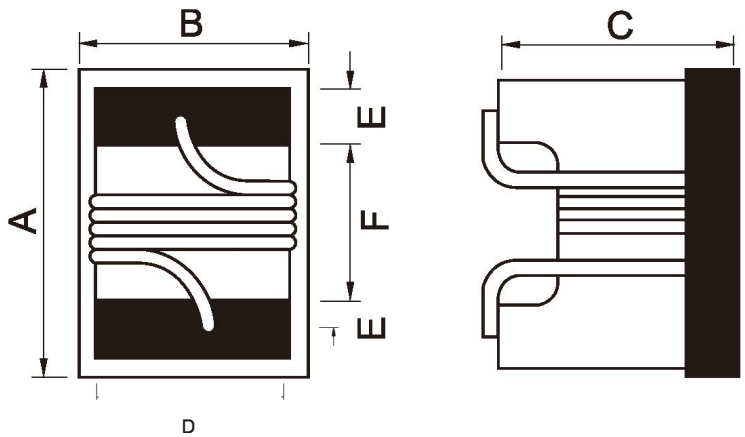
Product Code

Dimension： **L×W**(mm)

Inductance Deviation
J：±5%
K：±10%
M：±20%
N：±30%

Inductance
4R7：4.7μH
471：470μH

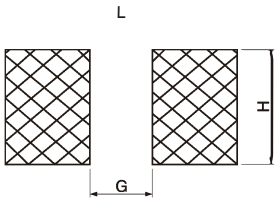
SHAPE AND DIMENSIONS



Units: mm

Type Specification	Product Size					
	Amax	Bmax	Cmax	Dmax	Emax	Fmax
SKFWI0603	1.80	1.20	1.10	0.85	0.40	0.92
SKFWI0805	2.30	1.70	1.45	1.38	0.60	1.03
SKFWI1008	2.80	2.70	2.10	2.20	0.60	1.50
SKFWI1210	3.50	2.90	2.25	2.50	0.60	2.20
SKFWI1812	4.80	3.40	3.15	2.60	0.70	3.00

RECOMMENDED PAD SIZE



Units: mm

Type Specification	Recommended Pad Size		
	L	G	H
SKFWI0603	2.10	0.30	1.30
SKFWI0805	2.70	0.55	2.10
SKFWI1008	3.50	0.70	3.20
SKFWI1210	4.40	1.00	3.50
SKFWI1812	5.50	1.90	4.00

SPECIFICATIONS

SKFWI0402 TYPE

Part Number	Inductance	Inductance Tolerance	L Test conditions	Self-resonant Frequency Min	Max. DC Resistance	Max. Rated Current
Units	μH	-	MHz	MHz	Ω	mA
Symbol	L	-	-	S.R.F	DCR	Ir
SKFWI0402-020	20	J、K	7.96	2600	0.050	1600
SKFWI0402-022	22	J、K	7.96	2500	0.065	1300
SKFWI0402-033	33	J、K	7.96	2300	0.060	1400
SKFWI0402-036	36	J、K	7.96	2300	0.075	1300
SKFWI0402-039	39	J、K	7.96	2200	0.115	830
SKFWI0402-051	51	J、K	7.96	1930	0.070	1100
SKFWI0402-056	56	J、K	7.96	1900	0.095	1000
SKFWI0402-072	72	J、K	7.96	1650	0.100	1000
SKFWI0402-078	78	J、K	7.96	1600	0.130	970
SKFWI0402-R10	100	J、K	7.96	1400	0.160	900
SKFWI0402-R14	140	J、K	7.96	1220	0.260	630
SKFWI0402-R18	180	J、K	7.96	1150	0.280	560
SKFWI0402-R20	200	J、K	7.96	1000	0.440	400
SKFWI0402-R22	220	J、K	7.96	1150	0.530	380
SKFWI0402-R25	250	J、K	7.96	900	0.360	520
SKFWI0402-R27	270	J、K	7.96	860	0.900	360
SKFWI0402-R30	300	J、K	7.96	860	0.410	420
SKFWI0402-R33	330	J、K	7.96	820	0.560	350
SKFWI0402-R36	360	J、K	7.96	810	0.575	300
SKFWI0402-R39	390	J、K	7.96	760	1.000	300
SKFWI0402-R42	420	J、K	7.96	700	0.700	340
SKFWI0402-R47	470	J、K	7.96	650	0.730	310
SKFWI0402-R56	560	J、K	7.96	600	1.200	200
SKFWI0402-R82	820	J、K	7.96	385	5.850	90

SKFWI0603 TYPE

Part Number	Inductance	Inductance Tolerance	Quality Factor Min	L, Q Test Conditions	Self-resonant Frequency Min	Max. DC Resistance	Max. Rated Current
Units	μH	-	-	MHz	MHz	Ω	mA
Symbol	L	-	Q	-	S.R.F	DCR	Ir
SKFWI0603-R10	0.10	J、K	12	7.96	1150	0.13	1000
SKFWI0603-R15	0.15	J、K	12	7.96	950	0.15	1000
SKFWI0603-R18	0.18	J、K	12	7.96	950	0.20	1000
SKFWI0603-R20	0.20	J、K	12	7.96	1030	0.20	740
SKFWI0603-R22	0.22	J、K	12	7.96	775	0.30	700
SKFWI0603-R27	0.27	J、K	12	7.96	775	0.30	700
SKFWI0603-R33	0.33	J、K	12	7.96	725	0.32	600
SKFWI0603-R39	0.39	J、K	12	7.96	620	0.51	500
SKFWI0603-R47	0.47	J、K	12	7.96	540	0.62	420
SKFWI0603-R51	0.51	J、K	12	7.96	600	0.65	400
SKFWI0603-R56	0.56	J、K	12	7.96	600	0.65	400
SKFWI0603-R68	0.68	J、K	12	7.96	500	1.00	380
SKFWI0603-R75	0.75	J、K	12	7.96	500	1.30	350
SKFWI0603-R82	0.82	J、K	12	7.96	500	1.30	350
SKFWI0603-1R0	1.00	J、K	12	7.96	400	1.50	330
SKFWI0603-1R2	1.20	J、K	12	7.96	380	1.70	320
SKFWI0603-1R5	1.50	J、K	12	7.96	300	1.90	310
SKFWI0603-1R8	1.80	J、K	12	7.96	180	2.20	300
SKFWI0603-2R0	2.00	J、K	12	7.96	180	2.30	280
SKFW10603-2R2	2.20	J、K	12	7.96	180	2.30	280
SKFW10603-2R7	2.70	J、K	12	7.96	150	2.60	250
SKFW10603-3R3	3.30	J、K	12	7.96	150	2.90	230
SKFW10603-3R9	3.90	J、K	12	7.96	120	3.20	210
SKFW10603-4R7	4.70	J、K	12	7.96	100	4.00	200
SKFW0603-5R1	5.10	J、K	15	7.96	32	2.60	240
SKFW10603-5R6	5.60	J、K	15	7.96	32	2.60	240
SKFW10603-6R8	6.80	J、K	12	7.96	31	3.90	200
SKFW10603-8R2	8.20	J、K	12	7.96	26	4.20	190
SKFW10603-100	10.00	J、K	10	2.52	25	4.80	180
SKFW10603-150	15.00	J、K	10	2.52	23	8.50	170
SKFW10603-180	18.00	J、K	10	2.52	22	10.00	160
SKFW10603-220	22.00	J、K	10	2.52	10	12.00	100

SKFWI0805 TYPE

Part Number	Inductance	Inductance Tolerance	Quality Factor Min	L, Q Test Conditions	Self-resonant Frequency Min	Max. DC Resistance	Max. Rated Current
Units	μH	-	-	MHz	MHz	Ω	mA
Symbol	L	-	Q	-	S.R.F	DCR	Ir
SKFW10805-R10	0.1	J、K	19	7.96	340	0.69	500
SKFW10805-R22	0.22	J、K	19	7.96	480	0.40	600
SKFW10805-R33	0.33	J、K	19	7.96	500	0.31	720
SKFW10805-R39	0.39	J、K	19	7.96	500	0.31	720
SKFW10805-R47	0.47	J、K	19	7.96	500	0.31	720
SKFW10805-R68	0.68	J、K	19	7.96	400	0.46	590
SKFW10805-R88	0.88	J、K	12	7.96	360	1.00	520
SKFW10805-R91	0.91	J、K	12	7.96	360	1.00	500
SKFW10805-1R0	1	J、K	12	7.96	360	1.00	430
SKFW10805-1R2	1.2	J、K	12	7.96	350	1.15	410
SKFW10805-1R5	1.5	J、K	12	7.96	300	1.20	400
SKFW10805-1R8	1.8	J、K	12	7.96	300	1.35	380
SKFW10805-2R2	2.2	J、K	12	7.96	170	1.50	350
SKFW0805-2R7	2.7	J、K	12	7.96	100	1.70	320
SKFW10805-3R3	3.3	J、K	12	7.96	90	1.80	300
SKFW10805-3R9	3.9	J、K	12	7.96	90	1.95	280
SKFW10805-4R7	4.7	J、K	12	7.96	85	2.05	250
SKFW10805-5R6	5.6	J、K	12	7.96	70	2.30	240
SKFW10805-6R8	6.8	J、K	12	7.96	55	2.60	220
SKFW10805-8R0	8	J、K	12	7.96	50	3.00	180
SKFW10805-8R2	8.2	J、K	12	7.96	50	3.00	180
SKFW10805-100	10	J、K	10	2.52	30	3.20	150
SKFW10805-120	12	J、K	10	2.52	17	3.50	100
SKFW10805-150	15	J、K	10	2.52	16	4.20	100
SKFW10805-180	18	J、K	10	2.52	15	4.50	95
SKFW10805-220	22	J、K	10	2.52	14	6.00	80
SKFW10805-390	39	J、K	10	2.52	14	10.00	60
SKFW10805-470	47	J、K	10	2.52	14	13.80	55
SKFW10805-101	100	J、K	8	1	5	25.00	30

SKFWI1008 TYPE

Part Number	Inductance	Inductance Tolerance	Quality Factor Min	L, Q Test Conditions	Self-resonant Frequency Min	Max. DC Resistance	Max. Rated Current
Units	μH	-	-	MHz	MHz	Ω	mA
Symbol	L	-	Q	-	S.R.F	DCR	Ir
SKFWI1008-R56	0.56	J、K	12	7.96	230	0.62	700
SKFWI1008-R68	0.68	J、K	12	7.96	230	0.62	700
SKFWI1008-R82	0.82	J、K	12	7.96	230	0.62	700
SKFWI1008-1R0	1	J、K	18	7.96	230	0.62	700
SKFWI1008-1R2	1.2	J、K	18	7.96	210	0.68	650
SKFWI1008-1R5	1.5	J、K	18	7.96	190	0.76	630
SKFWI1008-1R8	1.8	J、K	18	7.96	170	0.84	600
SKFWI1008-2R2	2.2	J、K	18	7.96	150	1.1	520
SKFWI1008-2R7	2.7	J、K	18	7.96	135	1.28	490
SKFWI1008-3R3	3.3	J、K	18	7.96	120	1.46	450
SKFWI1008-3R9	3.9	J、K	18	7.96	105	1.56	420
SKFWI1008-4R7	4.7	J、K	18	7.96	90	2	400
SKFWI1008-5R6	5.6	J、K	15	7.96	80	1.8	380
SKFWI1008-6R8	6.8	J、K	15	7.96	70	2	360
SKFWI1008-8R2	8.2	J、K	15	7.96	65	2.65	330
SKFWI1008-100	10	J、K	12	2.52	60	2.95	300
SKFWI1008-180	18	J、K	12	2.52	26	4	160
SKFWI1008-220	22	J、K	12	2.52	22	6.14	270
SKFWI1008-300	30	J、K	10	2.52	12	6.8	200
SKFWI1008-330	33	J、K	10	2.52	12	7	200
SKFWI1008-390	39	J、K	10	2.52	16	10.00	170
SKFWI1008-470	47	J、K	10	2.52	10	10.70	160
SKFWI1008-560	56	J、K	10	2.52	8	12.00	170
SKFWI1008-680	68	J、K	10	2.52	6	13.50	145
SKFWI1008-820	82	J、K	8	2.52	6	20.00	100
SKFWI1008-101	100	J、K	8	1	4	20.50	120

SKFWI1210 TYPE

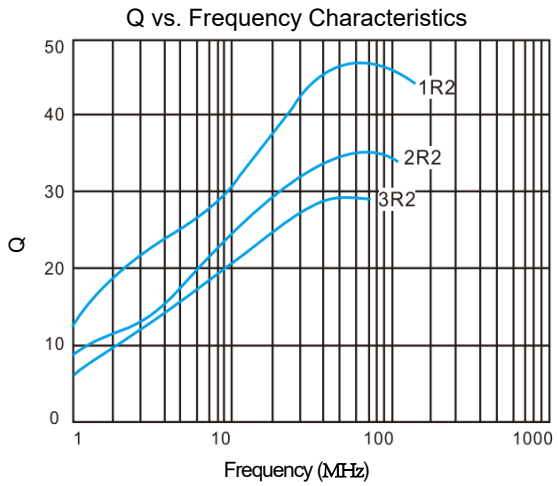
Part Number	Inductance	Inductance Tolerance	Quality Factor Min	L, Q Test Conditions	Self-resonant Frequency Min	Max. DC Resistance	Max. Rated Current
Units	μH	-	-	MHz	MHz	Ω	mA
Symbol	L	-	Q	-	S.R.F	DCR	Ir
SKFWI1210-R56	0.56	J、K	20	25	180	0.55	450
SKFWI1210-1R5	1.5	J、K	20	7.96	200	0.4	450
SKFWI1210-1R8	1.8	J、K	20	7.96	195	0.5	450
SKFWI1210-2R2	2.2	J、K	20	7.96	175	0.8	450
SKFWI1210-4R7	4.7	J、K	18	7.96	60	1.3	350
SKFWI1210-5R6	5.6	J、K	18	2.52	50	2	320
SKFWI1210-100	10	J、K	15	2.52	30	1	300
SKFWI1210-150	15	J、K	15	2.52	22	2	225
SKFWI1210-180	18	J、K	15	2.52	22	2.05	215
SKFWI1210-220	22	J、K	15	2.52	20	2.1	210
SKFWI1210-270	27	J、K	15	2.52	18	2.7	180
SKFWI1210-330	33	J、K	15	2.52	15	2.9	160
SKFWI1210-470	47	J、K	15	2.52	10	5.2	140
SKFWI1210-560	56	J、K	8	2.52	8	5.6	125
SKFWI1210-680	68	J、K	6	1	10	13.00	100
SKFWI1210-820	82	J、K	6	1	10	13.00	100
SKFW11210-101	100	J、K	6	1	10	13.00	100
SKFW11210-121	100	J、K	6	1	10	13.00	100
SKFW11210-151	150	J、K	10	1	4	20.00	80
SKFW11210-181	180	J、K	8	1	3	14.50	70
SKFW11210-201	200	J、K	8	1	2.6	30.00	65
SKFW11210-221	220	J、K	8	1	2.6	30.00	65
SKFW11210-331	330	J、K	8	1	2.3	35.00	55
SKFW11210-471	470	J、K	8	1	2	42.00	40
SKFW11210-561	560	J、K	8	1	2	60.00	10
SKFW11210-621	620	J、K	8	1	2	85.00	10
SKFW11210-681	680	J、K	6	1	2	90.00	10

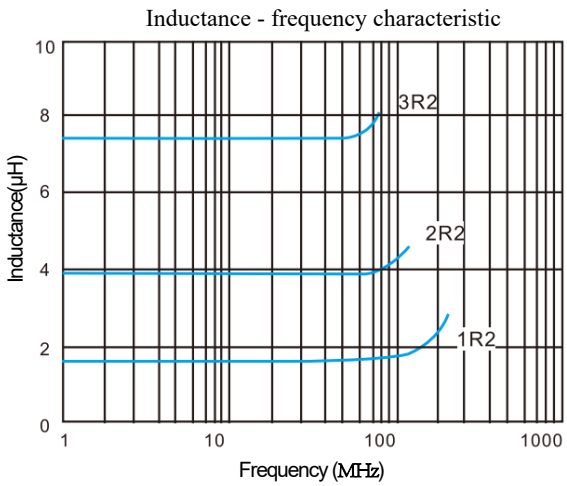
SKFWI1812 TYPE

Part Number	Inductance	Inductance Tolerance	Quality Factor Min	L, Q Test Conditions	Self-resonant Frequency Min	Max. DC Resistance	Max. Rated Current
Units	μH	-	-	MHz	MHz	Ω	mA
Symbol	L	-	Q	-	S.R.F	DCR	Ir
SKFW11812-1R0	1	J、K	25	7.96	200	0.22	1000
SKFW11812-1R2	1.2	J、K	25	7.96	200	0.35	1000
SKFW11812-1R5	1.5	J、K	25	7.96	180	0.32	1000
SKFW11812-1R8	18	J、K	25	7.96	160	0.35	950
SKFW11812-2R2	2.2	J、K	25	7.96	150	0.37	900
SKFW11812-2R7	2.7	J、K	25	7.96	145	0.37	850
SKFW11812-3R3	3.3	J、K	25	7.96	140	0.48	800
SKFW11812-3R9	3.9	J、K	25	7.96	135	0.60	750
SKFW11812-4R7	4.7	J、K	25	7.96	120	1.00	700
SKFW11812-5R6	5.6	J、K	25	7.96	110	0.55	650
SKFW11812-6R8	6.8	J、K	25	7.96	80	0.80	600
SKFW11812-8R2	8.2	J、K	20	7.96	70	0.85	600
SKFW11812-100	10	J、K	20	2.52	60	1.0	550
SKFW11812-120	12	J、K	20	2.52	55	1.1	550
SKFW11812-150	15	J、K	18	2.52	35	1.2	500
SKFW11812-180	18	J、K	18	2.52	29	1.2	500
SKFW11812-220	22	J、K	18	2.52	20	1.3	450
SKFW11812-270	27	J、K	18	2.52	20	1.5	400
SKFW11812-330	33	J、K	18	2.52	18	1.7	350
SKFW11812-390	39	J、K	18	2.52	14	1.8	350
SKFW11812-470	47	J、K	16	2.52	10	2.0	300
SKFW11812-560	56	J、K	16	2.52	10	2.2	390
SKFW11812-680	68	J、K	12	2.52	5.4	2.4	260
SKFW11812-820	82	J、K	12	2.52	5.2	2.8	240
SKFW11812-101	100	J、K	12	0.796	4.0	3.0	220
SKFW11812-121	120	J、K	10	0.796	3.3	3.3	220
SKFW11812-151	150	J、K	10	0.796	3.0	3.7	200
SKFW11812-181	180	J、K	10	0.796	3.0	4.5	200
SKFW11812-221	220	J、K	10	0.796	2.5	8.0	170
SKFW11812-271	270	J、K	10	0.796	2.2	8.5	160
SKFW11812-331	330	J、K	10	0.796	2.0	9.0	150
SKFWI1812-391	390	J、K	10	0.796	1.8	9.5	130
SKFWI1812-471	470	J、K	8	0.796	1.6	12.0	120
SKFWI1812-561	560	J、K	8	0.796	1.5	12.5	110
SKFWI1812-681	680	J、K	8	0.796	1.5	14.0	100
SKFWI1812-751	750	J、K	8	0.796	1.5	14.5	95
SKFWI1812-821	820	J、K	8	0.796	1.5	15.0	95
SKFWI1812-102	1000	J、K	6	0.252	1.4	16.5	90

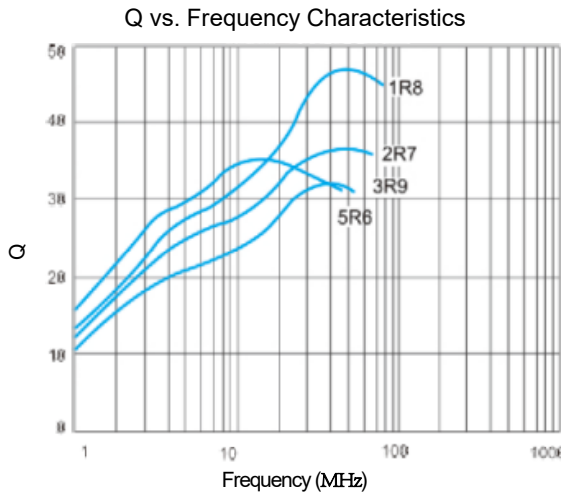
TYPICAL ELECTRICAL CHARACTERISTICS

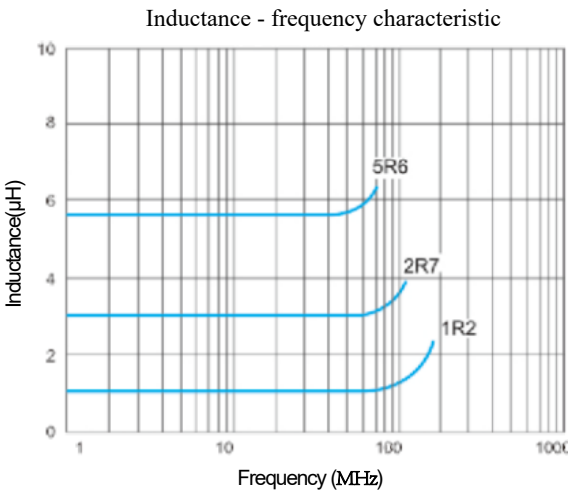
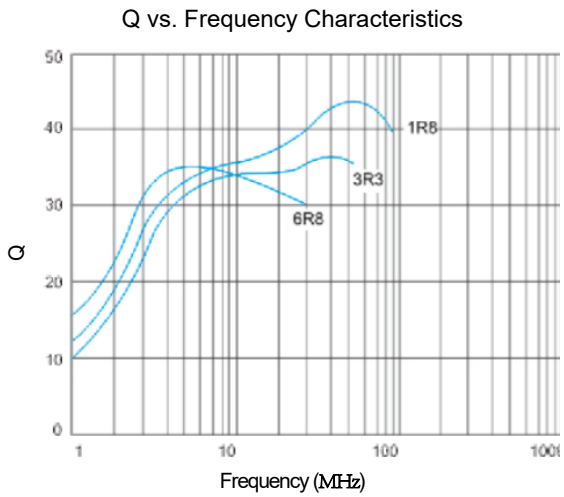
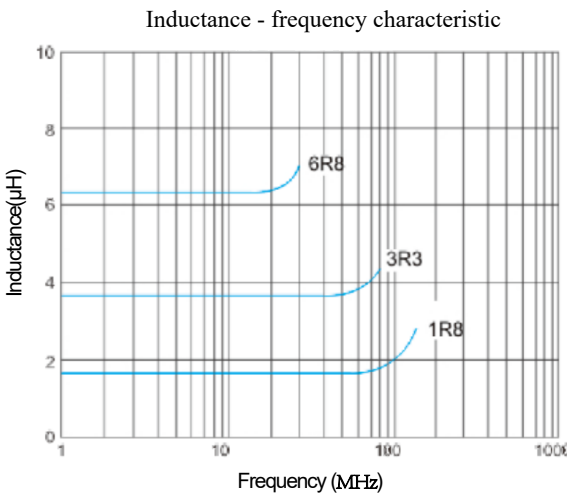
SKFWI0603 TYPE





SKFWI0805 TYPE

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