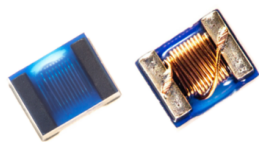


SFWI Series



Features

- 1, Very strong solderability by flow soldering, soldering iron.
- 2, Highly accurate dimensions, can be mounted automatically.
- 3, Terminals are highly resistant to pulling force.
- 4, Highly resistant to mechanical shock and pressure.
- 5, Highly reliable in environments of sudden temperature change and humidity. Super Q characteristics.

Applications

- 1, Mobile phones, video cameras and other electronic devices
- 2, Bluetooth modules and TWS earphones

Product Identification

SFWIXXXXXHCTL - XXXX
For example SFWI160808HCTL-2R2K

General Specifications

Test Frequency2.5-7.9MHz
 Test Voltage.....50mV
 Parameters Test Temp..... 25℃
 Operation Temp -25℃ to +105℃
 (individual chip without packing, self-temperature rise is not included)
 Storage Temp.....-10℃~40℃
 Storage Humidity.....<70% RH
 Resistance to Soldering Heat.....260℃ for 10 sec
 Rated Current.....40℃ typ. at Irms

Shape And Dimensions Unit:mm

Fig1

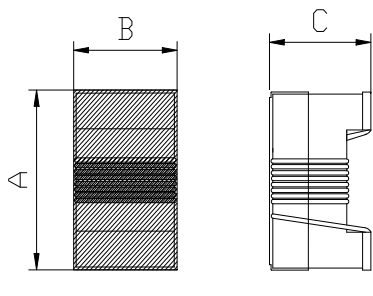
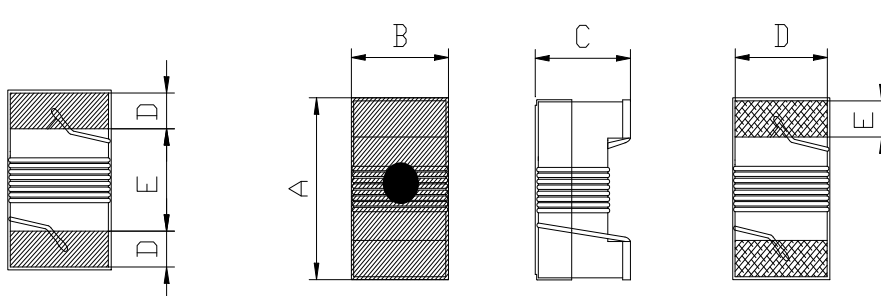
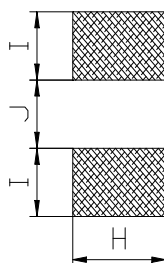
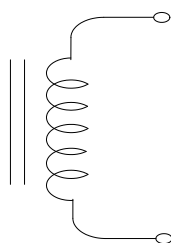


Fig2



Marking:Color dot

Electrical Schematic PAD Layout



TYPE	A	B	C	D	E	H	I	J	FIG
	Max	Max	Max	Typ	Ref	Ref	Ref	Ref	
SFWI100505HCTL	1.19	0.64	0.66	0.23	0.56	0.66	0.36	0.46	Fig1
SFWI160808HCTL	1.80	1.20	1.00	0.92	0.30	1.15	0.64	0.80	Fig2
SFWI201209HCTL	2.40	1.65	1.30	0.45	0.48	1.78	1.02	0.90	Fig2

Electrical Characteristics

Stamp	Inductance (nH)	Inductance Tolerance	Test frequency (MHz)	DCR (Ω) Max	Isat(mA) Max	SRF(GHZ) Min	Color Marking
SFWI100505HCTL-20N*	20.0	K,M	7.9	0.050	1600	2.60	NA
SFWI100505HCTL-22N*	22.0	K,M	7.9	0.065	1300	2.50	NA
SFWI100505HCTL-33N*	33.0	K,M	7.9	0.070	1300	2.30	NA
SFWI100505HCTL-36N*	36.0	K,M	7.9	0.075	1300	2.30	NA
SFWI100505HCTL-39N*	39.0	K,M	7.9	0.080	1200	2.20	NA
SFWI100505HCTL-51N*	51.0	K,M	7.9	0.085	1100	1.90	NA
SFWI100505HCTL-56N*	56.0	K,M	7.9	0.095	1000	1.90	NA
SFWI100505HCTL-72N*	72.0	K,M	7.9	0.100	1000	1.65	NA
SFWI100505HCTL-78N*	78.0	K,M	7.9	0.130	970	1.60	NA
SFWI100505HCTL-R10*	100	J,K,M	7.9	0.160	900	1.40	NA
SFWI100505HCTL-R12*	120	J,K,M	7.9	0.220	750	1.30	NA
SFWI100505HCTL-R14*	140	J,K,M	7.9	0.260	630	1.22	NA
SFWI100505HCTL-R18*	180	J,K,M	7.9	0.280	560	1.15	NA
SFWI100505HCTL-R20*	200	J,K,M	7.9	0.440	400	1.00	NA
SFWI100505HCTL-R22*	220	J,K,M	7.9	0.530	380	1.00	NA
SFWI100505HCTL-R25*	250	J,K,M	7.9	0.550	380	0.90	NA
SFWI100505HCTL-R27*	270	J,K,M	7.9	0.550	360	0.86	NA
SFWI100505HCTL-R30*	300	J,K,M	7.9	0.550	360	0.86	NA
SFWI100505HCTL-R33*	330	J,K,M	7.9	0.560	350	0.82	NA
SFWI100505HCTL-R36*	360	J,K,M	7.9	0.575	350	0.81	NA
SFWI100505HCTL-R39*	390	J,K,M	7.9	0.700	320	0.76	NA
SFWI100505HCTL-R42*	420	J,K,M	7.9	0.700	320	0.70	NA
SFWI100505HCTL-R47*	470	J,K,M	7.9	0.730	310	0.65	NA
SFWI100505HCTL-R56*	560	J,K,M	7.9	0.920	200	0.60	NA
SFWI100505HCTL-1R0*	1000	J,K,M	7.9	1.200	200	0.30	NA
SFWI100505HCTL-2R2*	2200	J,K,M	7.9	2.500	170	0.10	NA
SFWI100505HCTL-3R3*	3300	J,K,M	7.9	3.600	130	0.07	NA
SFWI100505HCTL-4R7*	4700	J,K,M	7.9	4.100	100	0.05	NA
SFWI100505HCTL-100*	10000	M	2.5	6.500	50	0.02	NA

*Note: When ordering, please specify tolerance code. Tolerance: J=±5%, K=±10%, M=±20%
 Isat for inductance drop down 10% from its value without current.

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*Beyond the above specification also can meet the special requirements. Need detailed content Please to the website query or contact us.

Electrical Characteristics

Stamp	Inductance (uH)	Inductance Tolerance	Q Typ	L/Q Test frequency (MHz)	DCR (Ω) ±30%	Isat(mA) Typ	Irms(mA) Typ	SRF(MHZ) Typ	Color Marking
SFWI160808HCTL-1R0*	1.00	K	16	7.9	0.20	700	860	390	NA
SFWI160808HCTL-2R2*	2.20	K	16	7.9	0.56	600	580	103	Red dot
SFWI160808HCTL-3R3*	3.30	K	16	7.9	0.70	500	500	66	Green dot
SFWI160808HCTL-4R7*	4.70	K	16	7.9	0.79	400	420	51	Yellow dot
SFWI160808HCTL-6R8*	6.80	K	16	7.9	1.50	340	340	43	White dot
SFWI160808HCTL-8R2*	8.20	K	16	7.9	1.68	300	300	40	Black dot
SFWI160808HCTL-100*	10.0	K	14	2.5	1.85	280	280	36	NA
SFWI160808HCTL-150*	15.0	K	14	2.5	2.60	240	240	29	Violet dot
SFWI160808HCTL-220*	22.0	K	14	2.5	3.60	200	200	24	Gray dot
SFWI160808HCTL-330*	33.0	K	14	2.5	6.60	120	120	15	Violet dot

*Note: When ordering, please specify tolerance code. Tolerance: J=±5%, K=±10%, M=±20%

Isat for inductance drop down 10% from its value without current.

Irms for a 25°C rise above 40°C ambient.

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Electrical Characteristics

Stamp	Inductance (uH)	Inductance Tolerance	Q Typ	L/Q Test frequency (MHz)	DCR (Ω) ±30%	Isat(mA) Typ	Irms(mA) Typ	SRF(MHZ) Typ	Color Marking
SFWI201209HCTL-R47*	0.47	K,M	14	7.9	0.12	1400	1500	850	Blue dot
SFWI201209HCTL-R51*	0.51	K,M	14	7.9	0.12	1400	1500	850	Green dot
SFWI201209HCTL-R56*	0.56	K,M	14	7.9	0.15	1200	1300	360	Violet dot
SFWI201209HCTL-R68*	0.68	K,M	14	7.9	0.15	1200	1300	290	Gray dot
SFWI201209HCTL-R82*	0.82	K,M	14	7.9	0.15	1100	1300	208	White dot
SFWI201209HCTL-1R0*	1.00	K,M	14	7.9	0.13	1100	1300	208	Black dot
SFWI201209HCTL-1R2*	1.20	K,M	14	7.9	0.16	960	1270	159	Red dot
SFWI201209HCTL-1R5*	1.50	K,M	14	7.9	0.17	920	1260	159	Brown dot
SFWI201209HCTL-1R8*	1.80	K,M	14	7.9	0.20	860	1080	112	Orange dot
SFWI201209HCTL-2R2*	2.20	K,M	13	7.9	0.22	740	1040	87	Red dot
SFWI201209HCTL-2R7*	2.70	K,M	13	7.9	0.25	680	1040	72	Yellow dot
SFWI201209HCTL-3R3*	3.30	K,M	12	7.9	0.28	620	1020	70	Orange dot
SFWI201209HCTL-3R9*	3.90	K,M	14	7.9	0.38	580	960	61	Green dot
SFWI201209HCTL-4R7*	4.70	K,M	14	7.9	0.43	520	840	51	Yellow dot
SFWI201209HCTL-5R6*	5.60	K,M	12	7.9	0.50	480	800	47	Blue dot
SFWI201209HCTL-6R8*	6.80	K,M	14	7.9	0.68	420	700	46	Green dot
SFWI201209HCTL-8R2*	8.20	K,M	13	7.9	0.73	400	680	33	Violet dot
SFWI201209HCTL-100*	10.0	J,K,M	14	2.5	0.85	360	560	31	Blue dot
SFWI201209HCTL-150*	15.0	J,K,M	15	2.5	1.40	300	380	28	Violet dot
SFWI201209HCTL-220*	22.0	J,K,M	15	2.5	1.76	240	340	20	Gray dot
SFWI201209HCTL-330*	33.0	J,K,M	15	2.5	2.35	200	300	17	White dot
SFWI201209HCTL-390*	39.0	J,K,M	14	2.5	3.35	180	290	15	Brown dot
SFWI201209HCTL-470*	47.0	J,K,M	14	2.5	3.40	160	280	15	Black dot
SFWI201209HCTL-560*	56.0	J,K,M	14	2.5	4.42	150	240	10	Yellow dot
SFWI201209HCTL-680*	68.0	J,K,M	14	2.5	4.45	140	240	10	Brown dot
SFWI201209HCTL-820*	82.0	J,K,M	14	2.5	7.50	100	180	10	Orange dot
SFWI201209HCTL-101*	100	J,K,M	10	1.0	7.50	100	180	9	Red dot
SFWI201209HCTL-121*	120	J,K,M	12	1.0	10.0	90	150	8	Brown dot
SFWI201209HCTL-221*	220	J,K,M	8	1.0	23.1	70	120	4	Blue dot

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