Wire Wound Chip Ceramic Inductor – SDWL-C Series

Operating Temp. : -40℃~+125℃

FEATURES

- Small chip suitable for surface mounting
- High Q value and high self-resonant frequency with ceramic material
- Tight inductance tolerance and stable inductance at high frequency

APPLICATIONS

High frequency circuit in telecommunication and other equipments

Mobile phones such as GSM, CDMA, PDC, etc.

Bluetooth, W-LAN, Broadband network

PRODUCT IDENTIFICATION

SDWL	1005	C	10N	J	S	T	E
①	②	③	④	⑤	⑥	⑦	⑧

①

Type	
SDWL	Wire Wound Chip Inductor

②

External Dimensions
1005 [0402]
1608 [0603]
2012 [0805]
2520 [1008]
3216 [1206]
3225 [1210]
4532 [1812]

③

Material Code	
C	Ceramic

④

Nominal Inductance	
Example	Nominal Value
10N	10nH
R10	100nH
1R0	1.0μH

⑤

Inductance Tolerance	
B	±0.1nH
C	±0.2nH
S	±0.3nH
D	±0.5nH
G	±2%
H	±3%
J	±5%
K	±10%

⑥

Feature Type	
S	Sn Plating Five-faces Coating
G	Au Plating Five-faces Coating

⑦

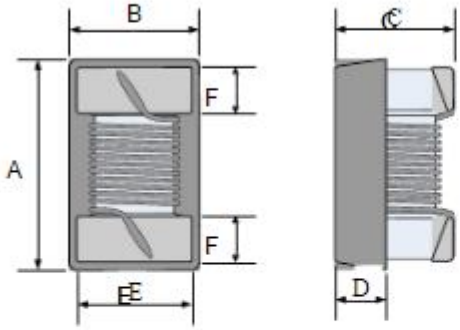
Packing	
T	Tape & Reel

⑧

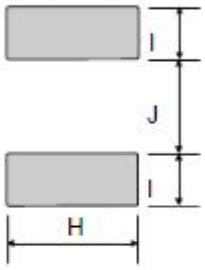
Hazardous Substance Free Products
F

SHAPE AND DIMENSIONS

SDWL-C



Land Pattern



Unit: mm

Series	A Max.	B Max.	C Max.	D Typ.	E Typ.	F Typ.	H Typ.	I Typ.	J Typ.
SDWL1005C	1.19	0.64	0.66	0.20	0.50	0.20	0.65	0.35	0.50
SDWL1608C	1.80	1.12	1.02	0.38	0.76	0.33	1.02	0.64	0.64
SDWL2012C	2.29	1.73	1.55	0.51	1.27	0.50	1.78	1.02	0.76
SDWL2520C	2.92	2.79	2.29	0.51	2.10	0.50	2.54	1.02	1.27
SDWL3216C	3.56	2.16	1.52	0.51	1.60	0.50	1.93	1.02	1.78
SDWL3225C	3.65	2.95	2.70	0.51	2.10	0.50	3.02	1.02	1.78
SDWL4532C	4.95	3.81	3.43	1.78	2.90	0.58	3.05	1.14	3.00

SPECIFICATIONS

SDWL1005C-S TYPE

Part Number	Inductance	Tolerance	Min. Quality Factor	L/Q Test Freq.	Max. DC Resistance	Max. Rated Current	Min. Self-resonant Frequency
Units	nH	-	-	MHz	Ω	mA	MHz
Symbol	L	-	Q	Freq.	DCR	Ir	S.R.F
SDWL1005C0N8□STF	0.8	B,C,S,D,K	14	250	0.035	1000	>6000
SDWL1005C1N0□STF	1.0	B,C,S,D,K	10	250	0.085	650	>6000
SDWL1005C1N8□STF	1.8	B,C,S,D,J,K	20	250	0.043	950	>6000
SDWL1005C1N9□STF	1.9	B,C,S,D,J,K	20	250	0.043	950	>6000
SDWL1005C2N0□STF	2.0	B,C,S,D,J,K	23	250	0.043	950	>6000
SDWL1005C2N2□STF	2.2	B,C,S,D,J,K	22	250	0.058	820	>6000
SDWL1005C2N4□STF	2.4	B,C,S,D,J,K	18	250	0.091	650	>6000
SDWL1005C3N0□STF	3.0	S,D,K	24	250	0.063	790	>6000
SDWL1005C3N3□STF	3.3	B,C,S,D,J,K	24	250	0.063	790	>6000
SDWL1005C3N6□STF	3.6	B,C,S,D,J,K	24	250	0.063	790	>6000
SDWL1005C3N9□STF	3.9	B,C,S,D,J,K	24	250	0.063	790	>6000
SDWL1005C4N1□STF	4.1	B,C,S,D,J,K	22	250	0.070	700	> 6000
SDWL1005C4N3□STF	4.3	B,C,S,D,J,K	22	250	0.070	750	>6000
SDWL1005C4N7□STF	4.7	B,C,S,D,J,K	20	250	0.120	570	>6000
SDWL1005C5N1□STF	5.1	B,C,S,D,J,K	23	250	0.100	620	>6000
SDWL1005C5N6□STF	5.6	B,C,S,D,J,K	25	250	0.078	710	>6000
SDWL1005C5N8□STF	5.8	B,C,S,D,J,K	25	250	0.078	710	>6000
SDWL1005C6N2□STF	6.2	B,C,S,D,J,K	25	250	0.078	710	>6000
SDWL1005C6N8□STF	6.8	G,H,J,K	24	250	0.105	610	6000
SDWL1005C7N5□STF	7.5	G,H,J,K	25	250	0.12	570	6000
SDWL1005C8N2□STF	8.2	G,H,J,K	25	250	0.11	590	5500
SDWL1005C8N7□STF	8.7	G,H,J,K	25	250	0.11	590	5500
SDWL1005C9N0□STF	9.0	G, H, J, K	25	250	0.11	590	5500

SPECIFICATIONS

SDWL1005C-S TYPE

Part Number	Inductance	Tolerance	Min. Quality Factor	L/Q Test Freq.	Max. DC Resistance	Max. Rated Current	Min. Self-resonant Frequency
Units	nH	-	-	MHz	Ω	mA	MHz
Symbol	L	-	Q	Freq.	DCR	Ir	S.R.F
SDWL1005C9N1□STF	9.1	G,H,J,K	25	250	0.11	590	5500
SDWL1005C10N□STF	10	G,H,J,K	24	250	0.15	510	5500
SDWL1005C11N□STF	11	G,H,J,K	26	250	0.12	570	5500
SDWL1005C12N□STF	12	G,H,J,K	26	250	0.12	570	5500
SDWL1005C13N□STF	13	G,H,J,K	24	250	0.18	460	5000
SDWL1005C14N□STF	14	G,H,J,K	26	250	0.21	430	5000
SDWL1005C15N□STF	15	G,H,J,K	26	250	0.21	430	5000
SDWL1005C16N□STF	16	G,H,J,K	25	250	0.28	370	4500
SDWL1005C18N□STF	18	G,H,J,K	25	250	0.28	370	4500
SDWL1005C19N□STF	19	G,H,J,K	26	250	0.24	400	4000
SDWL1005C20N□STF	20	G,H,J,K	26	250	0.24	400	4000
SDWL1005C22N□STF	22	G,H,J,K	25	250	0.36	330	4000
SDWL1005C23N□STF	23	G,H,J,K	25	250	0.36	330	3800
SDWL1005C24N□STF	24	G,H,J,K	25	250	0.36	330	3500
SDWL1005C27N□STF	27	G,H,J,K	25	250	0.38	320	3500
SDWL1005C30N□STF	30	G,H,J,K	25	250	0.38	320	3300
SDWL1005C33N□STF	33	G,H,J,K	24	250	0.55	260	3200
SDWL1005C36N□STF	36	G,H,J,K	25	250	0.60	250	3100
SDWL1005C38N□STF	38	G,H,J,K	25	250	0.60	250	3000
SDWL1005C39N□STF	39	G,H,J,K	25	250	0.60	250	3000
SDWL1005C43N□STF	43	G,H,J,K	25	250	0.68	240	3000
SDWL1005C47N□STF	47	G,H,J,K	25	250	0.95	200	2900
SDWL1005C51N□STF	51	G,H,J,K	25	250	0.95	200	2850
SDWL1005C56N□STF	56	G,H,J,K	25	250	1.05	190	2800
SDWL1005C62N□STF	62	G,H,J,K	25	250	1.05	190	2600
SDWL1005C68N□STF	68	G,H,J,K	25	250	1.35	170	2500
SDWL1005C75N□STF	75	G,H,J,K	24	250	1.75	140	2400
SDWL1005C82N□STF	82	G,H,J,K	25	250	1.90	140	2300
SDWL1005C91N□STF	91	G,H,J,K	25	250	1.95	140	2100
SDWL1005C96N□STF	96	G, H, J, K	24	250	2.06	130	1500
SDWL1005CR10□STF	100	G,H,J,K	24	250	2.06	130	1500
SDWL1005CR11□STF	110	G,H,J,K	25	250	2.38	120	1200
SDWL1005CR12□STF	120	G,H,J,K	25	250	2.66	110	1000

SDWL1608C-S TYPE

SDWL1608C-S TYPE

Part Number	Inductance	Tolerance	Min. Quality Factor	L/Q Test Freq.	Max. DC Resistance	Max. Rated Current	Min. Self-resonant Frequency
Units 单¼	nH	-	-	MHz	Ω	mA	MHz
Symbol符号	L	-	Q	Freq.	DCR	Ir	S.R.F
SDWL1608C1N6□STF	1.6	S, K	22	250	0.035	1150	>6000
SDWL1608C1N7□STF	1.7	C,S,D,J,K	16	250	0.043	1000	>6000
SDWL1608C1N8□STF	1.8	C,S,D,J,K	18	250	0.043	1000	>6000
SDWL1608C2N2□STF	2.2	S, D,K	13	250	0.150	700	>6000
SDWL1608C2N7□STF	2.7	C,S,D,J,K	25	250	0.043	1000	>6000
SDWL1608C3N3□STF	3.3	C,S,D,J,K	25	250	0.059	850	>6000
SDWL1608C3N6□STF	3.6	C,S,D,J,K	25	250	0.059	850	>6000

SPECIFICATIONS

SDWL1608C-S TYPE

Part Number	Inductance	Tolerance	Min. Quality Factor	L/Q Test Freq.	Max. DC Resistance	Max. Rated Current	Min. Self-resonan Frequency
Units	nH	-	-	MHz	Ω	mA	MHz
Symbol	L	-	Q	Freq.	DCR	Ir	S.R.F
SDWL1608C3N9□STF	3.9	C,S,D,J,K	25	250	0.059	850	>6000
SDWL1608C4N3□STF	4.3	C,S,D,J,K	25	250	0.059	850	>6000
SDWL1608C4N7□STF	4.7	C,S,D,J,K	25	250	0.065	800	>6000
SDWL1608C5N1□STF	5.1	C,S,D,J,K	21	250	0.130	600	>6000
SDWL1608C6N2□STF	6.2	C,S,D,J,K	29	250	0.095	700	>6000
SDWL1608C6N8□STF	6.8	G,H,J,K	29	250	0.095	700	>6000
SDWL1608C7N5□STF	7.5	G,H,J,K	33	250	0.095	700	>6000
SDWL1608C8N2□STF	8.2	G,H,J,K	31	250	0.095	700	>6000
SDWL1608C8N7□STF	8.7	G,H,J,K	31	250	0.095	700	>6000
SDWL1608C9N1□STF	9.1	G,H,J,K	30	250	0.120	620	6000
SDWL1608C9N5□STF	9.5	G,H,J,K	26	250	0.160	540	6000
SDWL1608C10N□STF	10	G,H,J,K	30	250	0.130	600	6000
SDWL1608C11N□STF	11	G,H,J,K	35	250	0.130	600	6000
SDWL1608C12N□STF	12	G,H,J,K	35	250	0.130	600	6000
SDWL1608C13N□STF	13	G,H,J,K	35	250	0.130	600	6000
SDWL1608C15N□STF	15	G,H,J,K	37	250	0.150	550	6000
SDWL1608C16N□STF	16	G,H,J,K	37	250	0.150	550	5500
SDWL1608C17N□STF	17	G, H, J, K	37	250	0.150	550	5500
SDWL1608C18N□STF	18	G,H,J,K	37	250	0.150	550	5500
SDWL1608C20N□STF	20	G,H,J,K	37	250	0.150	550	4900
SDWL1608C22N□STF	22	G,H,J,K	38	250	0.190	490	4600
SDWL1608C23N□STF	23	G,H,J,K	40	250	0.190	490	3800
SDWL1608C24N□STF	24	G,H,J,K	40	250	0.190	490	3800
SDWL1608C25N□STF	25	G,H,J,K	40	250	0.190	490	3700
SDWL1608C27N□STF	27	G,H,J,K	38	250	0.190	490	3700
SDWL1608C30N□STF	30	G,H,J,K	38	250	0.210	470	3300
SDWL1608C33N□STF	33	G,H,J,K	40	250	0.210	470	3200
SDWL1608C36N□STF	36	G,H,J,K	40	250	0.220	460	2900
SDWL1608C39N□STF	39	G,H,J,K	40	250	0.220	460	2800
SDWL1608C43N□STF	43	G,H,J,K	40	250	0.270	400	2700
SDWL1608C47N□STF	47	G,H,J,K	36	200	0.270	400	2600
SDWL1608C51N□STF	51	G,H,J,K	35	200	0.300	390	2400
SDWL1608C56N□STF	56	G,H,J,K	38	200	0.350	360	2400
SDWL1608C62N□STF	62	G,H,J,K	36	200	0.380	350	2300
SDWL1608C68N□STF	68	G,H,J,K	36	200	0.380	350	2200
SDWL1608C72N□STF	72	G,H,J,K	34	150	0.430	320	2100
SDWL1608C82N□STF	82	G,H,J,K	34	150	0.500	300	2000
SDWL1608C90N□STF	90	G, H, J, K	34	150	0.520	300	1900
SDWL1608C91N□STF	91	G,H,J,K	34	150	0.520	300	1900
SDWL1608CR10□STF	100	G,H,J,K	31	150	0.660	260	1800
SDWL1608CR11□STF	110	G,H,J,K	32	150	0.730	250	1700
SDWL1608CR12□STF	120	G,H,J,K	32	150	0.750	240	1600
SDWL1608CR13□STF	130	G, H, J, K	32	150	0.750	240	1500
SDWL1608CR14□STF	140	G, H, J, K	32	150	1.100	200	1400
SDWL1608CR15□STF	150	G, H,J,K	32	150	1.120	200	1400