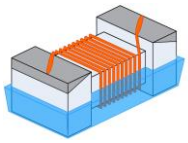
Wire Wound Chip Ceramic Inductor –SDWL-C-N Series

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 high reliabi

APPLICATIONS

- High frequency circuit in telecommunication and other equipments
- Mobile phones and other electronic devices
- Bluetooth, W-LAN, Broadband network

PRODUCT IDENTIFICATION

SDWL	1608	C	10N	J	S	T	F	N01
①	②	③	④	⑤	⑥	⑦	⑧	⑨

①

Type	
SDWL	Wire Wound Chip Inductor

②

External Dimensions
1608 [0603]

③

Material Code	
C	Ceramic

④

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

⑤

Inductance Tolerance	
G	±2%
J	±5%
K	±10%

⑥

Feature Type	
S	Sn Plating Five-faces Coating

⑦

Packing	
B	Bulk Package
T	Tape & Reel

⑧

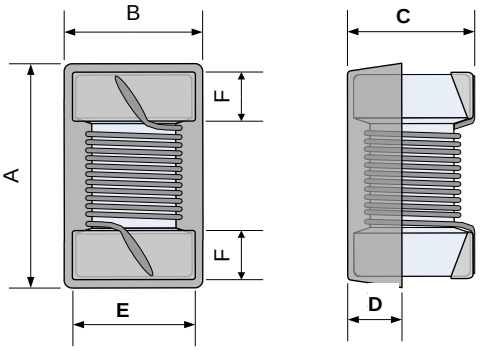
Hazardous Substance Free Products
F

⑨

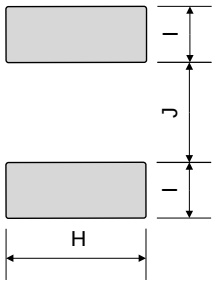
Internal Code	
N01	Internal Code

SHAPE AND DIMENSIONS

SDWL-C-N



Land Pattern



Unit: mm

Series	A Max.	B Max.	C Max.	D Ref.	E Ref.	F Ref.	H Ref.	I Ref.	J Ref.
SDWL1608C-N01	1.80	1.12	1.02	0.38	0.80	0.30	1.02	0.64	0.64

SPECIFICATIONS

SDWL1608C-N01 TYPE

Part Number	Inductance	Tolerance	Min. Quality Factor	L/Q Test Freq.	Min. Self-resonant Frequency	Max. DC Resistance	Max. Rated Current
Units	nH	-	-	MHz	MHz	Ω	mA
Symbol	L	-	Q	Freq.	S.R.F	DCR	Ir
SDWL1608C1N6□STFN01	1.6	S	24	250	12500	0.03	700
SDWL1608C1N8□STFN01	1.8	J, K	16	250	12500	0.045	700
SDWL1608C2N2□STFN01	2.2	J, K	13	250	12500	0.25	100
SDWL1608C2N7□STFN01	2.7	J, K	25	250	6000	0.043	1000
SDWL1608C3N3□STFN01	3.3	J, K	35	250	5900	0.045	700
SDWL1608C3N6□STFN01	3.6	J, K	22	250	5900	0.063	700
SDWL1608C3N9□STFN01	3.9	J, K	22	250	6900	0.08	700
SDWL1608C4N3□STFN01	4.3	J, K	22	250	5900	0.063	700
SDWL1608C4N7□STFN01	4.7	J, K	20	250	5800	0.116	700
SDWL1608C5N1□STFN01	5.1	J, K	20	250	5700	0.14	700
SDWL1608C5N6□STFN01	5.6	J, K	26	250	4760	0.075	700
SDWL1608C6N8□STFN01	6.8	G, J	27	250	5800	0.11	700
SDWL1608C7N5□STFN01	7.5	G, J	28	250	4800	0.106	700
SDWL1608C8N2□STFN01	8.2	G, J	30	250	4200	0.115	700
SDWL1608C8N7□STFN01	8.7	G, J	28	250	4600	0.109	700
SDWL1608C9N5□STFN01	9.5	G, J	28	250	5400	0.135	700
SDWL1608C10N□STFN01	10	G, J	31	250	4800	0.13	700
SDWL1608C11N□STFN01	11	G, J	30	250	4000	0.13	700
SDWL1608C12N□STFN01	12	G, J	35	250	4000	0.13	700
SDWL1608C15N□STFN01	15	G, J	35	250	4000	0.17	700
SDWL1608C16N□STFN01	16	G, J	34	250	3300	0.17	700
SDWL1608C18N□STFN01	18	G, J	35	250	3100	0.17	700
SDWL1608C22N□STFN01	22	G, J	38	250	3000	0.19	700
SDWL1608C23N□STFN01	23	G, J	38	250	2850	0.19	700
SDWL1608C24N□STFN01	24	G, J	36	250	2650	0.19	700
SDWL1608C27N□STFN01	27	G, J	40	250	2800	0.22	600
SDWL1608C30N□STFN01	30	G, J	37	250	2250	0.22	600
SDWL1608C33N□STFN01	33	G, J	40	250	2300	0.22	600
SDWL1608C36N□STFN01	36	G, J	37	250	2080	0.25	600

SPECIFICATIONS

SDWL1608C-N01 TYPE

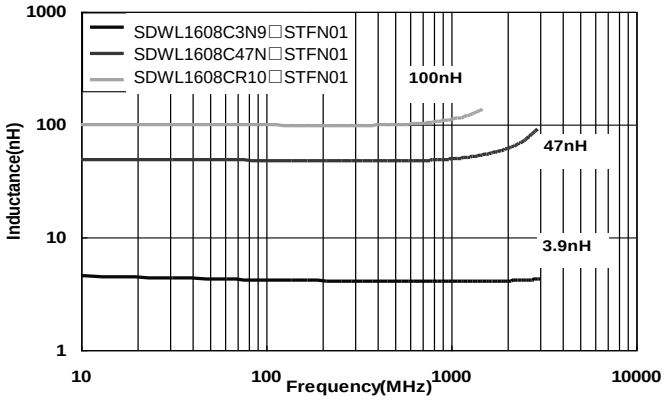
Part Number	Inductance	Tolerance	Min. Quality Factor	L/Q Test Freq.	Min. Self-resonant Frequency	Max. DC Resistance	Max. Rated Current
Units	nH	-	-	MHz	MHz	Ω	mA
Symbol	L	-	Q	Freq.	S.R.F	DCR	Ir
SDWL1608C39N□STFN01	39	G, J	40	250	2200	0.25	600
SDWL1608C43N□STFN01	43	G, J	38	250	2000	0.28	600
SDWL1608C47N□STFN01	47	G, J	38	200	2000	0.28	600
SDWL1608C51N□STFN01	51	G, J	35	200	1900	0.25	600
SDWL1608C56N□STFN01	56	G, J	38	200	1900	0.31	600
SDWL1608C68N□STFN01	68	G, J	37	200	1700	0.34	600
SDWL1608C72N□STFN01	72	G, J	34	150	1700	0.49	400
SDWL1608C82N□STFN01	82	G, J	34	150	1700	0.54	400
SDWL1608CR10□STFN01	100	G, J	34	150	1400	0.58	400
SDWL1608CR11□STFN01	110	G, J	32	150	1350	0.61	300
SDWL1608CR12□STFN01	120	G, J	32	150	1300	0.65	300
SDWL1608CR15□STFN01	150	G, J	28	150	990	0.92	280
SDWL1608CR18□STFN01	180	G, J	25	100	990	1.25	240
SDWL1608CR20□STFN01	200	G, J	25	100	900	1.98	200
SDWL1608CR21□STFN01	210	G, J	27	100	895	2.06	200
SDWL1608CR22□STFN01	220	G, J	25	100	900	2.1	200
SDWL1608CR23□STFN01	230	G, J	25	100	875	2.12	190
SDWL1608CR25□STFN01	250	G, J	25	100	822	3.55	120
SDWL1608CR27□STFN01	270	G, J	26	100	830	2.16	170
SDWL1608CR33□STFN01	330	G, J	25	100	900	3.89	100
SDWL1608CR39□STFN01	390	G, J	25	100	780	4.35	100

※: Please refer to "Measurement Notice for RF Inductors".

TYPICAL ELECTRICAL CHARACTERISTICS

SDWL1608C-N01 TYPE

Inductance vs. Frequency Characteristics



Q vs. Frequency Characteristics