Wire Wound Chip Ceramic Inductor-SDWL-CP 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
- Lower DCR, higher Q and larger current than SDWL-C series

APPLICATIONS

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

PRODUCT IDENTIFICATION

SDWL	2012	C	P	11N	J	S	T	F
①	②	③	④	⑤	⑥	⑦	⑧	⑨

①

Type	
SDWL	Wire Wound Chip Inductor

②

External Dimensions
2012[0805]

③

Material Code	
C	Ceramic

④

Feature Type	
P	Large Current & High Q

⑤

Nominal Inductance	
Example	Nominal Value
11N	11nH
R10	100nH

⑥

Inductance Tolerance	
G	±2%
J	±5%

⑦

Feature Type	
S	Sn Plating Five-faces Coating

⑧

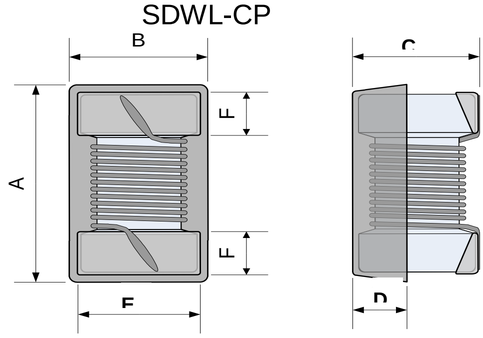
Packing	
T	Tape & Reel

⑨

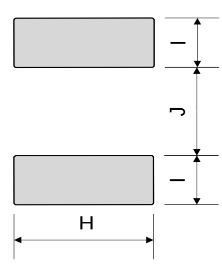
Hazardous Substance Free Products
F

SHAPE AND DIMENSIONS

SDWL-CP



Land Pattern



Unit: mm

Series	A	B	C	D Ref.	E	F	H Ref.	I Ref.	J Ref.
SDWL2012CP	2.4 Max.	1.8 Max.	1.5 Max.	0.51	1.55±0.1	0.3±0.1	1.98	1.02	1.12

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SPECIFICATIONS

SDWL2012CP TYPE

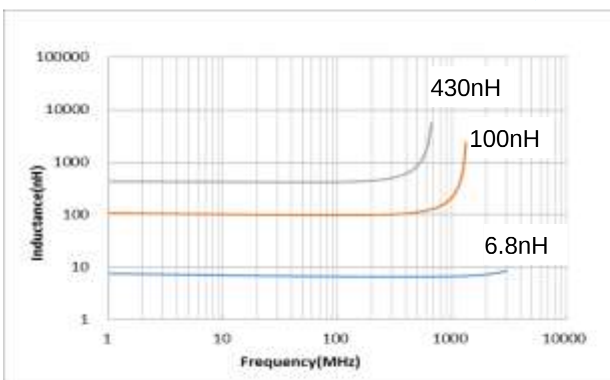
Part Number	Inductance	Tolerance	Quality Factor Typ.	L/Q Test Freq.	Min. Self-resonant Frequency	Max. DC Resistance	Max. Rated Current
Units	nH	-	-	MHz	GHz	Ω	mA
Symbol	L	-	Q	Freq.	S.R.F	DCR	Ir
SDWL2012CP2N6□STF	2.6	J	100	250/1500	9500	0.015	2000
SDWL2012CP6N2□STF	6.2	J	104	250/1000	7200	0.027	1500
SDWL2012CP6N8□STF	6.8	J	90	250/1000	6000	0.066	1300
SDWL2012CP11N□STF	11	G,J	93	250/500	4750	0.039	1600
SDWL2012CP12N□STF	12	G,J	91	250/500	4425	0.039	1400
SDWL2012CP13N□STF	13	G,J	91	250/500	4100	0.039	1400
SDWL2012CP18N□STF	18	G,J	95	250/500	3650	0.05	1200
SDWL2012CP33N□STF	33	G,J	100	250/500	2410	0.087	1100
SDWL2012CP47N□STF	47	G,J	105	200/500	2170	0.093	1000
SDWL2012CP56N□STF	56	G,J	100	200/500	1815	0.122	950
SDWL2012CP82N□STF	82	G,J	103	150/500	1525	0.168	820
SDWL2012CPR10□STF	100	G,J	100	150/500	1400	0.22	720
SDWL2012CPR12□STF	120	G,J	80	150/250	1265	0.293	620
SDWL2012CPR15□STF	150	G,J	80	100/250	1150	0.288	600
SDWL2012CPR18□STF	180	G,J	77	100/250	1025	0.374	540
SDWL2012CPR22□STF	220	G,J	75	100/250	930	0.426	500
SDWL2012CPR27□STF	270	G,J	75	100/250	830	0.754	420
SDWL2012CPR33□STF	330	G,J	54	100/100	770	1.004	360
SDWL2012CPR39□STF	390	G,J	52	100/100	700	1.11	330
SDWL2012CPR43□STF	430	G,J	46	100/100	680	1.488	300
SDWL2012CPR47□STF	470	G,J	52	50/100	640	1.559	280
SDWL2012CPR56□STF	560	G,J	46	25/100	550	2.067	240
SDWL2012CPR68□STF	680	G,J	46	25/100	535	2.355	210
SDWL2012CPR82□STF	820	G,J	50	25/100	485	3.945	180

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

TYPICAL ELECTRICAL CHARACTERISTICS

SDWL2012CP TYPE

Inductance vs. Frequency Characteristics



Q vs. Frequency Characteristics