Wire Wound Chip Ceramic Inductor - MWSD-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 high reliability
- Single-sided package, thinner 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

MWSD	1608	C	10N	□	T	S01
①	②	③	④	⑤	⑥	⑦

①

Type	
MWSD	Wire Wound Chip Inductor

②

External Dimensions
1608[0603]

③

Material Code	
C	Ceramic

④

Nominal Inductance	
Example	Nominal Value
4N7	4.7nH
10N	10nH
R10	100nH

⑤

Inductance Tolerance	
C	±0.2nH
D	±0.5nH
G	±2%
J	±5%

⑥

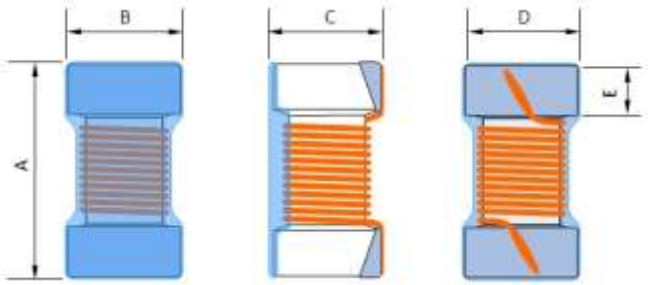
Packing	
B	Package
T	Tape & Reel

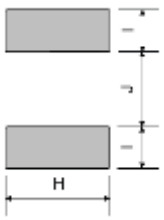
⑦

Internal Code	
S01	Internal Code

SHAPE AND DIMENSIONS

Land Pattern





Unit: mm

Series	A	B	C	D	E	H REF.	I REF.	J REF.
MWSD1608-C-S	1.60±0.20	0.80±0.20	0.80±0.20	0.80	0.30	1.02	0.64	0.64

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SPECIFICATIONS

MWSD1608C –S01 TYPE

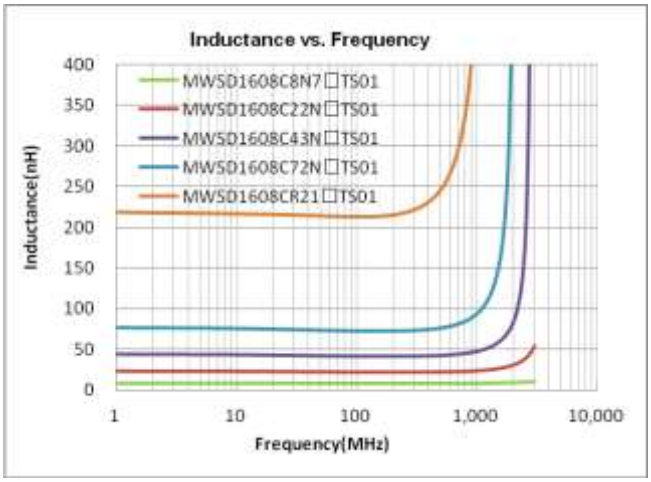
Part Number	Inductance	Tolerance	Min. Quality Factor	L/Q Test Freq.	Max. Rated Current	Min. Self-resonant Frequency	Max. DC Resistance
Units	nH	-	-	MHz	mA	MHz	Ω
Symbol	L	-	Q	Freq.	Ir	S.R.F	DCR
MWSD1608C3N3□TS01	3.3	D	35	250/250	700	5900	0.045
MWSD1608C3N6□TS01	3.6	C,D	22	250/250	700	5900	0.063
MWSD1608C3N9□TS01	3.9	C,D	22	250/250	700	6900	0.080
MWSD1608C4N7□TS01	4.7	D	20	250/250	700	5800	0.116
MWSD1608C5N1□TS01	5.1	D	20	250/250	700	5700	0.140
MWSD1608C5N6□TS01	5.6	C,D	26	250/250	700	4760	0.075
MWSD1608C6N8□TS01	6.8	C,D	27	250/250	700	5800	0.110
MWSD1608C7N5□TS01	7.5	C,D	28	250/250	700	4800	0.106
MWSD1608C8N2□TS01	8.2	C,D	30	250/250	700	4200	0.115
MWSD1608C8N7□TS01	8.7	C,D	28	250/250	700	4600	0.109
MWSD1608C9N5□TS01	9.5	G,J	28	250/250	700	5400	0.135
MWSD1608C10N□TS01	10	G,J	31	250/250	700	4800	0.130
MWSD1608C11N□TS01	11	G,J	30	250/250	700	4000	0.086
MWSD1608C12N□TS01	12	G,J	35	250/250	700	4000	0.130
MWSD1608C15N□TS01	15	G,J	35	250/250	700	4000	0.170
MWSD1608C16N□TS01	16	G,J	34	250/250	700	3300	0.104
MWSD1608C18N□TS01	18	G,J	35	250/250	700	3100	0.170
MWSD1608C22N□TS01	22	G,J	38	250/250	700	3000	0.190
MWSD1608C23N□TS01	23	G,J	38	250/250	700	2850	0.190
MWSD1608C24N□TS01	24	G,J	36	250/250	700	2650	0.135
MWSD1608C27N□TS01	27	G,J	40	250/250	600	2800	0.220
MWSD1608C30N□TS01	30	G,J	37	250/250	600	2250	0.144
MWSD1608C33N□TS01	33	G,J	40	250/250	600	2300	0.220
MWSD1608C36N□TS01	36	G,J	37	250/250	600	2080	0.250
MWSD1608C39N□TS01	39	G,J	40	250/250	600	2200	0.250
MWSD1608C43N□TS01	43	G,J	38	250/250	600	2000	0.280
MWSD1608C47N□TS01	47	G,J	38	200/200	600	2000	0.280
MWSD1608C51N□TS01	51	G,J	35	200/200	600	1900	0.270
MWSD1608C56N□TS01	56	G,J	38	200/200	600	1900	0.310
MWSD1608C68N□TS01	68	G,J	37	200/200	600	1700	0.340
MWSD1608C72N□TS01	72	G,J	34	150/150	400	1700	0.490
MWSD1608C82N□TS01	82	G,J	34	150/150	400	1700	0.540
MWSD1608CR10□TS01	100	G,J	34	150/150	400	1400	0.580
MWSD1608CR11□TS01	110	G,J	32	150/150	300	1350	0.610
MWSD1608CR12□TS01	120	G,J	32	150/150	300	1300	0.650
MWSD1608CR15□TS01	150	G,J	28	150/150	280	990	0.920
MWSD1608CR18□TS01	180	G,J	25	100/100	240	990	1.250
MWSD1608CR20□TS01	200	G,J	25	100/100	200	900	1.980
MWSD1608CR21□TS01	210	G,J	27	100/100	200	895	2.060
MWSD1608CR22□TS01	220	G,J	25	100/100	200	900	2.100
MWSD1608CR25□TS01	250	G,J	25	100/100	120	822	3.550
MWSD1608CR27□TS01	270	G,J	24	100/100	170	900	2.300
MWSD1608CR33□TS01	330	G,J	25	100/100	100	900	3.890
MWSD1608CR39□TS01	390	G,J	25	100/100	100	900	4.350

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

TYPICAL ELECTRICAL CHARACTERISTICS

MWSD1608C –S01 TYPE

Inductance vs. Frequency Characteristics



Q vs. Frequency Characteristics