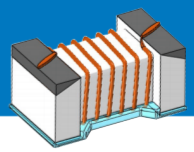
Wire Wound Chip Ceramic Inductor – MWSD – C Series



Operating temp. : -40°C ~+125°C

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 line of communication equipment and wireless module
- Mobile phones, smart watches and other portable electronic devices
- Bluetooth, W-LAN, Broadband network

PRODUCT IDENTIFICATION

1	2	3	4	5	6	7
MWSD	1005	C	10N	□	T	□□□

1

Type	
MWSD	Wire Wound Chip Inductor

2

External Dimensions	
0603 [0201]	0.53×0.4
0804 [03015]	0.8×0.4
1005 [0402]	1.1×0.6
1608 [0603]	1.6×0.8 1.6×0.9 1.6×1.0

3

Material Code	
C	Ceramic

4

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

5

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

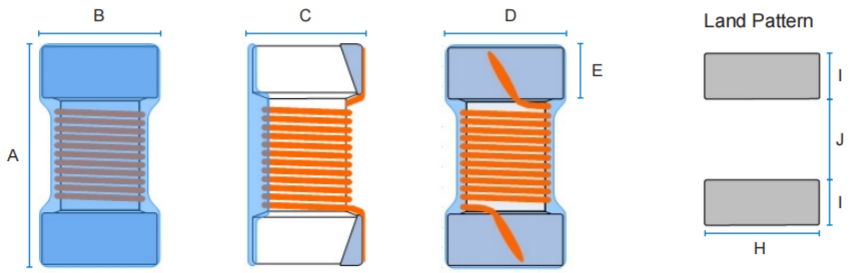
7

Design Code	
□□□	Design Code
*Standard product is blank	

6

Packing	
B	Bulk Package
T	Tape & Reel

SHAPE AND DIMENSIONS



SHAPE AND DIMENSIONS

Series	A	B	C	D	E	H REF.	I REF.	J REF.
MWSD0603C	0.53±0.05	0.40±0.05	0.40±0.05	0.40±0.05	0.10±0.05	0.50	0.20	0.23
MWSD0804C	0.80±0.05	0.40±0.05	0.40±0.05	0.40±0.05	0.15±0.05	0.50	0.25	0.43
MWSD1005C	1.1±0.1	0.6±0.1	0.55±0.1	0.5±0.1	0.2±0.1	0.65	0.35	0.50
MWSD1608C	1.60±0.20	0.90±0.20	0.90±0.20	0.85	0.30	1.02	0.64	0.64
MWSD1608C-N	1.6±0.20	1.00±0.20	0.80±0.20	0.80	0.30	1.02	0.64	0.64
MWSD1608C-S	1.6±0.20	0.8±0.20	0.80±0.20	0.8	0.30	1.02	0.64	0.64
MWSD1608C-B/Y	1.60±0.20	0.90±0.20	0.90±0.20	0.85	0.30	1.02	0.64	0.64

Unit: mm

SPECIFICATIONS

MWSD0603C 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
MWSD0603C1N0 ☐ T	1.0	C,D	48	250/900	19000	0.03	900
MWSD0603C1N1 ☐ T	1.1	C,D	41	250/900	19000	0.06	660
MWSD0603C1N7 ☐ T	1.7	C,D	41	250/900	19000	0.07	600
MWSD0603C1N8 ☐ T	1.8	C,D	37	250/900	19000	0.10	520
MWSD0603C1N9 ☐ T	1.9	C,D	41	250/900	19000	0.08	620
MWSD0603C2N0 ☐ T	2.0	C,D	42	250/900	19000	0.10	490
MWSD0603C2N1 ☐ T	2.1	C,D	35	250/900	19000	0.16	400
MWSD0603C2N2 ☐ T	2.2	C,D	33	250/900	19000	0.16	400
MWSD0603C2N7 ☐ T	2.7	C,D	46	250/900	15000	0.06	720
MWSD0603C2N8 ☐ T	2.8	C,D	44	250/900	14000	0.08	600
MWSD0603C2N9 ☐ T	2.9	C,D	41	250/900	13000	0.10	540
MWSD0603C3N0 ☐ T	3.0	C,D	34	250/900	14000	0.22	350
MWSD0603C3N1 ☐ T	3.1	C,D	48	250/900	12000	0.07	720
MWSD0603C3N2 ☐ T	3.2	C,D	48	250/900	10000	0.08	580
MWSD0603C3N3 ☐ T	3.3	C,D	47	250/900	11000	0.11	520
MWSD0603C3N4 ☐ T	3.4	C,D	43	250/900	11000	0.15	440
MWSD0603C3N5 ☐ T	3.5	C,D	43	250/900	12000	0.15	440
MWSD0603C3N6 ☐ T	3.6	C,D	36	250/900	11000	0.23	340
MWSD0603C3N7 ☐ T	3.7	C,D	38	250/900	11000	0.23	340
MWSD0603C3N9 ☐ T	3.9	C,D	38	250/900	11000	0.25	500
MWSD0603C4N1 ☐ T	4.1	C,D	48	100/900	11000	0.07	650
MWSD0603C4N3 ☐ T	4.3	D,J	45	100/900	11000	0.12	480
MWSD0603C4N7 ☐ T	4.7	D,J	45	100/900	9500	0.09	620
MWSD0603C5N1 ☐ T	5.1	D,J	45	100/900	9500	0.14	480
MWSD0603C5N4 ☐ T	5.4	D,J	46	100/900	9500	0.21	420
MWSD0603C5N6 ☐ T	5.6	D,J	37	100/900	8300	0.33	330
MWSD0603C6N0 ☐ T	6.0	D,J	47	100/900	8800	0.16	460
MWSD0603C6N2 ☐ T	6.2	D,J	39	100/900	9900	0.22	360
MWSD0603C6N8 ☐ T	6.8	D,J	42	100/900	7700	0.18	460
MWSD0603C7N5 ☐ T	7.5	D,J	41	100/900	7500	0.24	400
MWSD0603C8N2 ☐ T	8.2	D,J	40	100/900	8500	0.26	290
MWSD0603C8N7 ☐ T	8.7	D,J	39	100/900	7500	0.42	290
MWSD0603C9N1 ☐ T	9.1	D,J	46	100/900	6400	0.22	460
MWSD0603C10N ☐ T	10.0	J	37	100/900	7200	0.46	250
MWSD0603C11N ☐ T	11.0	J	37	100/900	7000	0.47	260
MWSD0603C12N ☐ T	12.0	J	39	100/900	6000	0.54	280
MWSD0603C13N ☐ T	13.0	J	39	100/900	5900	0.54	280
MWSD0603C14N ☐ T	14.0	J	37	100/900	6000	0.53	240
MWSD0603C15N ☐ T	15.0	J	38	100/900	5700	0.60	230

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SPECIFICATIONS

MWSD0804C 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
MWSD0804C0N8 ☐ T	0.8	C,D	23	100/250	20000	0.02	1800
MWSD0804C1N1 ☐ T	1.1	C,D	15	100/250	20000	0.03	990
MWSD0804C1N3 ☐ T	1.3	C,D	15	100/250	20000	0.03	1500
MWSD0804C1N6 ☐ T	1.6	C,D	15	100/250	17000	0.06	700
MWSD0804C1N7 ☐ T	1.7	C,D	15	100/250	17000	0.06	700
MWSD0804C1N8 ☐ T	1.8	C,D	15	100/250	17000	0.06	700
MWSD0804C1N9 ☐ T	1.9	C,D	10	100/250	15000	0.12	490
MWSD0804C2N3 ☐ T	2.3	C,D	18	100/250	20000	0.07	780
MWSD0804C2N4 ☐ T	2.4	C,D	15	100/250	15000	0.07	570
MWSD0804C2N5 ☐ T	2.5	C,D	10	100/250	10000	0.12	490
MWSD0804C2N6 ☐ T	2.6	C,D	15	100/250	15000	0.07	620
MWSD0804C2N7 ☐ T	2.7	C,D	15	100/250	15000	0.07	570
MWSD0804C2N8 ☐ T	2.8	C,D	15	100/250	15000	0.07	620
MWSD0804C3N0 ☐ T	3.0	C,D	15	100/250	13000	0.07	620
MWSD0804C3N3 ☐ T	3.3	C,D	10	100/250	10000	0.14	440
MWSD0804C3N4 ☐ T	3.4	C,D	10	100/250	8000	0.27	310
MWSD0804C3N6 ☐ T	3.6	C,D	15	100/250	13000	0.10	530
MWSD0804C3N7 ☐ T	3.7	C,D	20	100/250	10000	0.14	440
MWSD0804C3N8 ☐ T	3.8	C,D	15	100/250	11000	0.10	530
MWSD0804C3N9 ☐ T	3.9	C,D	15	100/250	12000	0.10	530
MWSD0804C4N3 ☐ T	4.3	C,D	15	100/250	11000	0.10	530
MWSD0804C4N5 ☐ T	4.5	C,D	20	100/250	10000	0.14	440
MWSD0804C5N0 ☐ T	5.0	C,D	15	100/250	9000	0.23	350
MWSD0804C5N1 ☐ T	5.1	C,D	20	100/250	10000	0.12	470
MWSD0804C5N6 ☐ T	5.6	C,D	20	100/250	9000	0.12	470
MWSD0804C6N2 ☐ T	6.2	C,D	20	100/250	9000	0.19	390
MWSD0804C6N5 ☐ T	6.5	C,D	20	100/250	9000	0.19	390
MWSD0804C6N8 ☐ T	6.8	C,D	20	100/250	9000	0.14	440
MWSD0804C7N5 ☐ T	7.5	C,D	20	100/250	8000	0.14	440
MWSD0804C8N2 ☐ T	8.2	C,D	20	100/250	8000	0.23	350
MWSD0804C9N0 ☐ T	9.0	C,D	20	100/250	7000	0.26	330
MWSD0804C9N5 ☐ T	9.5	C,D	20	100/250	7000	0.26	330
MWSD0804C9N9 ☐ T	9.9	C,D	20	100/250	7000	0.26	330
MWSD0804C10N ☐ T	10	H,J	20	100/250	7000	0.26	330
MWSD0804C12N ☐ T	12	H,J	15	100/250	6000	0.28	310
MWSD0804C18N ☐ T	18	H,J	15	100/250	5000	0.54	220
MWSD0804C24N ☐ T	24	H,J	15	100/250	4000	0.95	160
MWSD0804C33N ☐ T	33	H,J	15	100/250	4000	1.11	140
MWSD0804C43N ☐ T	43	J	15	100/250	1600	1.20	180
MWSD0804C56N ☐ T	56	J	13	100/250	1200	1.60	130

MWSD1005C 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
MWSD1005C0N8 ☐ T	0.8	B,C,S,D,K	14	250/250	>6000	0.035	1000
MWSD1005C1N0 ☐ T	1.0	B,C,S,D,K	10	250/250	>6000	0.085	650
MWSD1005C1N8 ☐ T	1.8	B,C,S,D,J,K	20	250/250	>6000	0.043	950
MWSD1005C1N9 ☐ T	1.9	B,C,S,D,J,K	20	250/250	>6000	0.043	950

SPECIFICATIONS MWSD1005C 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
MWSD1005C2N0 ☐ T	2.0	B,C,S,D,J,K	23	250/250	>6000	0.043	950
MWSD1005C2N2 ☐ T	2.2	B,C,S,D,J,K	22	250/250	>6000	0.058	820
MWSD1005C2N4 ☐ T	2.4	B,C,S,D,J,K	18	250/250	>6000	0.091	650
MWSD1005C2N7 ☐ T	2.7	B,C,S,D,J,K	24	250/250	>6000	0.050	900
MWSD1005C3N0 ☐ T	3.0	S,D,K	24	250/250	>6000	0.063	790
MWSD1005C3N3 ☐ T	3.3	B,C,S,D,J,K	24	250/250	>6000	0.063	790
MWSD1005C3N6 ☐ T	3.6	B,C,S,D,J,K	24	250/250	>6000	0.063	790
MWSD1005C3N9 ☐ T	3.9	B,C,S,D,J,K	24	250/250	>6000	0.063	790
MWSD1005C4N1 ☐ T	4.1	B,C,S,D,J,K	22	250/250	>6000	0.070	700
MWSD1005C4N3 ☐ T	4.3	B,C,S,D,J,K	22	250/250	>6000	0.070	750
MWSD1005C4N7 ☐ T	4.7	B,C,S,D,J,K	20	250/250	>6000	0.120	570
MWSD1005C5N1 ☐ T	5.1	B,C,S,D,J,K	23	250/250	>6000	0.100	620
MWSD1005C5N6 ☐ T	5.6	B,C,S,D,J,K	25	250/250	>6000	0.078	710
MWSD1005C5N8 ☐ T	5.8	B,C,S,D,J,K	25	250/250	>6000	0.078	710
MWSD1005C6N2 ☐ T	6.2	B,C,S,D,J,K	25	250/250	>6000	0.078	710
MWSD1005C6N8 ☐ T	6.8	G,H,J,K	24	250/250	6000	0.105	610
MWSD1005C7N5 ☐ T	7.5	G,H,J,K	25	250/250	6000	0.12	570
MWSD1005C8N2 ☐ T	8.2	G,H,J,K	25	250/250	5500	0.11	590
MWSD1005C8N7 ☐ T	8.7	G,H,J,K	25	250/250	5500	0.11	590
MWSD1005C9N0 ☐ T	9.0	G,H,J,K	25	250/250	5500	0.11	590
MWSD1005C9N1 ☐ T	9.1	G,H,J,K	25	250/250	5500	0.11	590
MWSD1005C10N ☐ T	10	G,H,J,K	24	250/250	5500	0.15	510
MWSD1005C11N ☐ T	11	G,H,J,K	26	250/250	5500	0.12	570
MWSD1005C12N ☐ T	12	G,H,J,K	26	250/250	5500	0.12	570
MWSD1005C13N ☐ T	13	G,H,J,K	24	250/250	5000	0.18	460
MWSD1005C14N ☐ T	14	G,H,J,K	26	250/250	5000	0.21	430
MWSD1005C15N ☐ T	15	G,H,J,K	26	250/250	5000	0.21	430
MWSD1005C16N ☐ T	16	G,H,J,K	25	250/250	4500	0.28	370
MWSD1005C18N ☐ T	18	G,H,J,K	25	250/250	4500	0.28	370
MWSD1005C19N ☐ T	19	G,H,J,K	26	250/250	4000	0.24	400
MWSD1005C20N ☐ T	20	G,H,J,K	26	250/250	4000	0.24	400
MWSD1005C22N ☐ T	22	G,H,J,K	25	250/250	4000	0.36	330
MWSD1005C23N ☐ T	23	G,H,J,K	25	250/250	3800	0.36	330
MWSD1005C24N ☐ T	24	G,H,J,K	25	250/250	3500	0.36	330
MWSD1005C27N ☐ T	27	G,H,J,K	25	250/250	3500	0.38	320
MWSD1005C30N ☐ T	30	G,H,J,K	25	250/250	3300	0.38	320
MWSD1005C33N ☐ T	33	G,H,J,K	24	250/250	3200	0.55	260
MWSD1005C36N ☐ T	36	G,H,J,K	25	250/250	3100	0.60	250
MWSD1005C38N ☐ T	38	G,H,J,K	25	250/250	3000	0.60	250
MWSD1005C39N ☐ T	39	G,H,J,K	25	250/250	3000	0.60	250
MWSD1005C43N ☐ T	43	G,H,J,K	25	250/250	3000	0.68	240
MWSD1005C47N ☐ T	47	G,H,J,K	25	250/250	2900	0.95	200
MWSD1005C51N ☐ T	51	G,H,J,K	25	250/250	2850	0.95	200
MWSD1005C56N ☐ T	56	G,H,J,K	25	250/250	2800	1.05	190
MWSD1005C62N ☐ T	62	G,H,J,K	25	250/250	2600	1.05	190
MWSD1005C68N ☐ T	68	G,H,J,K	25	250/250	2500	1.35	170
MWSD1005C75N ☐ T	75	G,H,J,K	24	250/250	2400	1.75	140
MWSD1005C82N ☐ T	82	G,H,J,K	25	250/250	2300	1.90	140
MWSD1005C91N ☐ T	91	G,H,J,K	25	250/250	2100	1.95	140
MWSD1005C96N ☐ T	96	G,H,J,K	24	250/250	1500	2.06	130
MWSD1005CR10 ☐ T	100	G,H,J,K	24	250/250	1500	2.06	130

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SPECIFICATIONS MWSD1005C 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
MWSD1005CR11 ☐ T	110	G,H,J,K	25	250/250	1200	2.38	120
MWSD1005CR12 ☐ T	120	J,K	25	250/250	1000	2.66	110
MWSD1005CR27 ☐ T	270	JK	10	100/100	400	3.30	100

MWSD1608C 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
MWSD1608C1N6 ☐ T	1.6	C,D,K	22	250/250	6000	0.035	1150
MWSD1608C2N2 ☐ T	2.2	B,C,D,K	13	250/250	6000	0.15	700
MWSD1608C2N7 ☐ T	2.7	C,D,J,K	25	250/250	6000	0.043	1000
MWSD1608C3N3 ☐ T	3.3	C,D,J,K	25	250/250	6000	0.059	850
MWSD1608C3N6 ☐ T	3.6	C,D,J,K	25	250/250	6000	0.059	850
MWSD1608C4N7 ☐ T	4.7	C,D,J,K	25	250/250	6000	0.065	800
MWSD1608C5N1 ☐ T	5.1	C,D,J,K	21	250/250	6000	0.13	600
MWSD1608C5N6 ☐ T	5.6	B,C,D,J,K	38	250/250	6000	0.045	900
MWSD1608C6N2 ☐ T	6.2	C,D,J,K	29	250/250	6000	0.095	700
MWSD1608C6N8 ☐ T	6.8	C,D,J,K	29	250/250	6000	0.095	700
MWSD1608C7N5 ☐ T	7.5	C,D,J,K	33	250/250	6000	0.095	700
MWSD1608C8N2 ☐ T	8.2	C,D,J,K	31	250/250	6000	0.095	700
MWSD1608C8N7 ☐ T	8.7	C,D,J,K	31	250/250	6000	0.095	700
MWSD1608C9N1 ☐ T	9.1	C,D,J,K	30	250/250	6000	0.12	620
MWSD1608C9N5 ☐ T	9.5	C,D,J,K	26	250/250	6000	0.16	540
MWSD1608C10N ☐ T	10	G,H,J,K	30	250/250	5700	0.13	600
MWSD1608C11N ☐ T	11	G,H,J,K	35	250/250	6000	0.13	600
MWSD1608C12N ☐ T	12	G,H,J,K	35	250/250	6000	0.13	600
MWSD1608C13N ☐ T	13	G,H,J,K	35	250/250	5300	0.13	600
MWSD1608C15N ☐ T	15	G,H,J,K	37	250/250	5700	0.15	550
MWSD1608C16N ☐ T	16	G,H,J,K	37	250/250	4700	0.15	550
MWSD1608C17N ☐ T	17	G,H,J,K	37	250/250	4700	0.15	550
MWSD1608C18N ☐ T	18	G,H,J,K	37	250/250	4550	0.15	550
MWSD1608C20N ☐ T	20	G,H,J,K	37	250/250	4550	0.15	550
MWSD1608C22N ☐ T	22	G,H,J,K	38	250/250	4000	0.19	490
MWSD1608C23N ☐ T	23	G,H,J,K	40	250/250	3800	0.19	490
MWSD1608C24N ☐ T	24	G,H,J,K	40	250/250	3800	0.19	490
MWSD1608C25N ☐ T	25	G,H,J,K	40	250/250	3700	0.19	490
MWSD1608C27N ☐ T	27	G,H,J,K	38	250/250	3700	0.19	490
MWSD1608C30N ☐ T	30	G,H,J,K	38	250/250	3300	0.21	470
MWSD1608C33N ☐ T	33	G,H,J,K	40	250/250	3200	0.21	470
MWSD1608C36N ☐ T	36	G,H,J,K	40	250/250	2900	0.22	460
MWSD1608C39N ☐ T	39	G,H,J,K	40	250/250	2800	0.22	460
MWSD1608C43N ☐ T	43	G,H,J,K	40	250/250	2700	0.27	400
MWSD1608C47N ☐ T	47	G,H,J,K	36	200/200	2600	0.27	400
MWSD1608C51N ☐ T	51	G,H,J,K	35	200/200	2400	0.30	390
MWSD1608C56N ☐ T	56	G,H,J,K	38	200/200	2400	0.35	360
MWSD1608C62N ☐ T	62	G,H,J,K	36	200/200	2300	0.38	350
MWSD1608C68N ☐ T	68	G,H,J,K	36	200/200	2200	0.38	350
MWSD1608C72N ☐ T	72	G,H,J,K	34	150/150	2100	0.43	320
MWSD1608C82N ☐ T	82	G,H,J,K	34	150/150	2000	0.50	300
MWSD1608C90N ☐ T	90	G,H,J,K	34	150/150	1900	0.52	300

SPECIFICATIONS MWSD1608C 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
MWSD1608C91N ☐ T	91	G,H,J,K	34	150/150	1900	0.52	300
MWSD1608CR10 ☐ T	100	G,H,J,K	31	150/150	1800	0.66	260
MWSD1608CR11 ☐ T	110	G,H,J,K	32	150/150	1700	0.73	250
MWSD1608CR12 ☐ T	120	G,H,J,K	32	150/150	1600	0.75	240
MWSD1608CR13 ☐ T	130	G,H,J,K	32	150/150	1500	0.75	240
MWSD1608CR14 ☐ T	140	G,H,J,K	32	150/150	1400	1.10	200
MWSD1608CR15 ☐ T	150	G,H,J,K	32	150/150	1400	1.12	200
MWSD1608CR16 ☐ T	160	G,H,J,K	32	150/150	1400	1.12	200
MWSD1608CR18 ☐ T	180	G,H,J,K	25	100/100	1300	1.38	180
MWSD1608CR20 ☐ T	200	G,H,J,K	25	100/100	1250	1.90	150
MWSD1608CR21 ☐ T	210	G,H,J,K	25	100/100	1250	1.90	150
MWSD1608CR22 ☐ T	220	G,H,J,K	25	100/100	1200	2.10	140
MWSD1608CR24 ☐ T	240	G,H,J,K	25	100/100	1100	2.75	120
MWSD1608CR25 ☐ T	250	G,H,J,K	25	100/100	1100	2.80	120
MWSD1608CR27 ☐ T	270	G,H,J,K	26	100/100	960	3.00	120
MWSD1608CR30 ☐ T	300	G,H,J,K	26	100/100	900	4.05	110
MWSD1608CR33 ☐ T	330	G,H,J,K	26	100/100	800	4.20	100
MWSD1608CR36 ☐ T	360	G,H,J,K	27	100/100	800	4.30	100
MWSD1608CR39 ☐ T	390	G,H,J,K	27	100/100	800	4.50	100
MWSD1608CR42 ☐ T	420	G,H,J,K	27	100/100	800	5.40	90
MWSD1608CR47 ☐ T	470	G,H,J,K	27	100/100	700	5.70	90
MWSD1608CR56 ☐ T	560	G,H,J,K	27	100/100	650	8.10	70

MWSD1608C-N 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
MWSD1608C1N6 ☐ TN01	1.6	S	24	250/250	12500	0.030	700
MWSD1608C1N8 ☐ TN01	1.8	J, K	16	250/250	12500	0.045	700
MWSD1608C2N2 ☐ TN01	2.2	J, K	13	250/250	12500	0.250	100
MWSD1608C2N7 ☐ TN01	2.7	J, K	25	250/250	6000	0.043	1000
MWSD1608C3N3 ☐ TN01	3.3	J, K	35	250/250	5900	0.045	700
MWSD1608C3N6 ☐ TN01	3.6	J, K	22	250/250	5900	0.063	700
MWSD1608C3N9 ☐ TN01	3.9	J, K	22	250/250	6900	0.080	700
MWSD1608C4N3 ☐ TN01	4.3	J, K	22	250/250	5900	0.063	700
MWSD1608C4N7 ☐ TN01	4.7	J, K	20	250/250	5800	0.116	700
MWSD1608C5N1 ☐ TN01	5.1	J, K	20	250/250	5700	0.140	700
MWSD1608C5N6 ☐ TN01	5.6	J, K	26	250/250	4760	0.075	700
MWSD1608C6N8 ☐ TN01	6.8	G, J	27	250/250	5800	0.110	700
MWSD1608C7N5 ☐ TN01	7.5	G, J	28	250/250	4800	0.106	700
MWSD1608C8N2 ☐ TN01	8.2	G ,J	30	250/250	4200	0.115	700
MWSD1608C8N7 ☐ TN01	8.7	G ,J	28	250/250	4600	0.109	700
MWSD1608C9N5 ☐ TN01	9.5	G ,J	28	250/250	5400	0.135	700
MWSD1608C10N ☐ TN01	10	G ,J	31	250/250	4800	0.130	700
MWSD1608C11N ☐ TN01	11	G ,J	30	250/250	4000	0.130	700
MWSD1608C12N ☐ TN01	12	G ,J	35	250/250	4000	0.130	700
MWSD1608C15N ☐ TN01	15	G ,J	35	250/250	4000	0.170	700
MWSD1608C16N ☐ TN01	16	G ,J	34	250/250	3300	0.170	700
MWSD1608C18N ☐ TN01	18	G ,J	35	250/250	3100	0.170	700
MWSD1608C22N ☐ TN01	22	G ,J	38	250/250	3000	0.190	700

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SPECIFICATIONS MWSD1608C-N 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
MWSD1608C23N ☐ TN01	23	G ,J	38	250/250	2850	0.190	700
MWSD1608C24N ☐ TN01	24	G ,J	36	250/250	2650	0.190	700
MWSD1608C27N ☐ TN01	27	G ,J	40	250/250	2800	0.220	600
MWSD1608C30N ☐ TN01	30	G, J	37	250/250	2250	0.220	600
MWSD1608C33N ☐ TN01	33	G ,J	40	250/250	2300	0.220	600
MWSD1608C36N ☐ TN01	36	G ,J	37	250/250	2080	0.250	600
MWSD1608C39N ☐ TN01	39	G ,J	40	250/250	2200	0.250	600
MWSD1608C43N ☐ TN01	43	G ,J	38	250/250	2000	0.280	600
MWSD1608C47N ☐ TN01	47	G ,J	38	200/200	2000	0.280	600
MWSD1608C51N ☐ TN01	51	G ,J	35	200/200	1900	0.250	600
MWSD1608C56N ☐ TN01	56	G ,J	38	200/200	1900	0.310	600
MWSD1608C68N ☐ TN01	68	G ,J	37	200/200	1700	0.340	600
MWSD1608C72N ☐ TN01	72	G ,J	34	150/150	1700	0.490	400
MWSD1608C75N ☐ TN01	75	G ,J	35	150/150	1700	0.630	400
MWSD1608C82N ☐ TN01	82	G ,J	34	150/150	1700	0.540	400
MWSD1608CR10 ☐ TN01	100	G ,J	34	150/150	1400	0.580	400
MWSD1608CR11 ☐ TN01	110	G ,J	32	150/150	1350	0.610	300
MWSD1608CR12 ☐ TN01	120	G ,J	32	150/150	1300	0.650	300
MWSD1608CR15 ☐ TN01	150	G ,J	28	150/150	990	0.920	280
MWSD1608CR18 ☐ TN01	180	G ,J	25	100/100	990	1.250	240
MWSD1608CR20 ☐ TN01	200	G ,J	25	100/100	900	1.980	200
MWSD1608CR21 ☐ TN01	210	G ,J	27	100/100	895	2.060	200
MWSD1608CR22 ☐ TN01	220	G ,J	25	100/100	900	2.100	200
MWSD1608CR25 ☐ TN01	250	G ,J	25	100/100	822	3.550	120
MWSD1608CR27 ☐ TN01	270	G ,J	26	100/100	830	2.160	170
MWSD1608CR33 ☐ TN01	330	G ,J	25	100/100	900	3.890	100
MWSD1608CR39 ☐ TN01	390	G ,J	25	100/100	780	4.350	100

MWSD1608C-S 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
MWSD1608C3N3 ☐ TS01	3.3	D	35	250/250	5900	0.045	700
MWSD1608C3N6 ☐ TS01	3.6	C,D	22	250/250	5900	0.063	700
MWSD1608C3N9 ☐ TS01	3.9	C,D	22	250/250	6900	0.080	700
MWSD1608C4N7 ☐ TS01	4.7	D	20	250/250	5800	0.116	700
MWSD1608C5N1 ☐ TS01	5.1	D	20	250/250	5700	0.140	700
MWSD1608C5N6 ☐ TS01	5.6	C,D	26	250/250	4760	0.075	700
MWSD1608C6N8 ☐ TS01	6.8	C,D	27	250/250	5800	0.110	700
MWSD1608C7N5 ☐ TS01	7.5	C,D	28	250/250	4800	0.106	700
MWSD1608C8N2 ☐ TS01	8.2	C,D	30	250/250	4200	0.115	700
MWSD1608C8N7 ☐ TS01	8.7	C,D	28	250/250	4600	0.109	700
MWSD1608C9N5 ☐ TS01	9.5	G,J	28	250/250	5400	0.135	700
MWSD1608C10N ☐ TS01	10	G,J	31	250/250	4800	0.130	700
MWSD1608C11N ☐ TS01	11	G,J	30	250/250	4000	0.086	700
MWSD1608C12N ☐ TS01	12	G,J	35	250/250	4000	0.130	700
MWSD1608C15N ☐ TS01	15	G,J	35	250/250	4000	0.170	700
MWSD1608C16N ☐ TS01	16	G,J	34	250/250	3300	0.104	700
MWSD1608C18N ☐ TS01	18	G,J	35	250/250	3100	0.170	700
MWSD1608C22N ☐ TS01	22	G,J	38	250/250	3000	0.190	700

SPECIFICATIONS MWSD1608C-S 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
MWSD1608C23N ☐ TS01	23	G,J	38	250/250	2850	0.190	700
MWSD1608C24N ☐ TS01	24	G,J	36	250/250	2650	0.135	700
MWSD1608C27N ☐ TS01	27	G,J	40	250/250	2800	0.220	600
MWSD1608C30N ☐ TS01	30	G,J	37	250/250	2250	0.144	600
MWSD1608C33N ☐ TS01	33	G,J	40	250/250	2300	0.220	600
MWSD1608C36N ☐ TS01	36	G,J	37	250/250	2080	0.250	600
MWSD1608C39N ☐ TS01	39	G,J	40	250/250	2200	0.250	600
MWSD1608C43N ☐ TS01	43	G,J	38	250/250	2000	0.280	600
MWSD1608C47N ☐ TS01	47	G,J	38	200/200	2000	0.280	600
MWSD1608C51N ☐ TS01	51	G,J	35	200/200	1900	0.270	600
MWSD1608C56N ☐ TS01	56	G,J	38	200/200	1900	0.310	600
MWSD1608C68N ☐ TS01	68	G,J	37	200/200	1700	0.340	600
MWSD1608C72N ☐ TS01	72	G,J	34	150/150	1700	0.490	400
MWSD1608C82N ☐ TS01	82	G,J	34	150/150	1700	0.540	400
MWSD1608CR10 ☐ TS01	100	G,J	34	150/150	1400	0.580	400
MWSD1608CR11 ☐ TS01	110	G,J	32	150/150	1350	0.610	300
MWSD1608CR12 ☐ TS01	120	G,J	32	150/150	1300	0.650	300
MWSD1608CR15 ☐ TS01	150	G,J	28	150/150	990	0.920	280
MWSD1608CR18 ☐ TS01	180	G,J	25	100/100	990	1.250	240
MWSD1608CR20 ☐ TS01	200	G,J	25	100/100	900	1.980	200
MWSD1608CR21 ☐ TS01	210	G,J	27	100/100	895	2.060	200
MWSD1608CR22 ☐ TS01	220	G,J	25	100/100	900	2.100	200
MWSD1608CR25 ☐ TS01	250	G,J	25	100/100	822	3.550	120
MWSD1608CR27 ☐ TS01	270	G,J	24	100/100	900	2.300	170
MWSD1608CR33 ☐ TS01	330	G,J	25	100/100	900	3.890	100
MWSD1608CR39 ☐ TS01	390	G,J	25	100/100	900	4.350	100

MWSD1608C-B 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
MWSD1608C5N6 ☐ TB01	5.6	C,D	38	250/250	6000	0.045	1250
MWSD1608C6N8 ☐ TB01	6.8	C,D,J	29	250/250	5800	0.116	700
MWSD1608C8N2 ☐ TB01	8.2	C,D,J,K	30	250/250	4600	0.12	700
MWSD1608C10N ☐ TB03	10	G,H,J,K	30	250/250	6000	0.13	600
MWSD1608C12N ☐ TB02	12	G,H,J,K	35	250/250	6000	0.13	600
MWSD1608C15N ☐ TB04	15	G,H,J,K	37	250/250	6000	0.15	550
MWSD1608C18N ☐ TB03	18	J,K	37	250/250	4550	0.15	700
MWSD1608C22N ☐ TB01	22	J,K	38	250/250	3000	0.19	700
MWSD1608C23N ☐ TB02	23	G,H,J,K	40	250/250	1800	0.20	600
MWSD1608C24N ☐ TB01	24	G,H,J,K	37	250/250	2650	0.20	700
MWSD1608C27N ☐ TB04	27	G,H,J,K	38	250/250	3700	0.19	600
MWSD1608C30N ☐ TB01	30	G,H,J,K	38	250/250	3300	0.22	600
MWSD1608C33N ☐ TB02	33	G,H,J,K	40	250/250	3200	0.21	600
MWSD1608C36N ☐ TB02	36	J,K	40	250/250	2900	0.22	600
MWSD1608C39N ☐ TB01	39	J,K	40	250/250	2200	0.25	600
MWSD1608C47N ☐ TB01	47	G,H,J,K	38	200/200	2600	0.27	600
MWSD1608C56N ☐ TB03	56	G,H,J,K	38	200/200	2400	0.35	600
MWSD1608C68N ☐ TB03	68	G,H,J,K	40	200/200	2200	0.34	600
MWSD1608C72N ☐ TB01	72	G,H,J,K	34	150/150	1700	0.49	400

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SPECIFICATIONS MWSD1608C-B 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
MWSD1608C82N ☐ TB04	82	G,H,J,K	34	150/150	2000	0.50	400
MWSD1608CR10 ☐ TB01	100	G,H,J,K	34	150/150	1800	0.54	400
MWSD1608CR11 ☐ TB01	110	J,K	33	150/150	1350	0.61	300
MWSD1608CR12 ☐ TB03	120	G,H,J,K	33	150/150	1300	0.65	300
MWSD1608CR15 ☐ TB01	150	G,H,J,K	28	150/150	990	1.00	280
MWSD1608CR22 ☐ TB02	220	G,H,J,K	25	100/100	1200	2.10	200
MWSD1608CR27 ☐ TB01	270	J,K	26	100/100	1000	3.00	120
MWSD1608CR33 ☐ TB04	334	J,K	22	100/100	560	3.89	150
MWSD1608CR47 ☐ TB01	470	G,H,J,K	30	100/100	700	5.70	90

MWSD1608C-Y TYPE

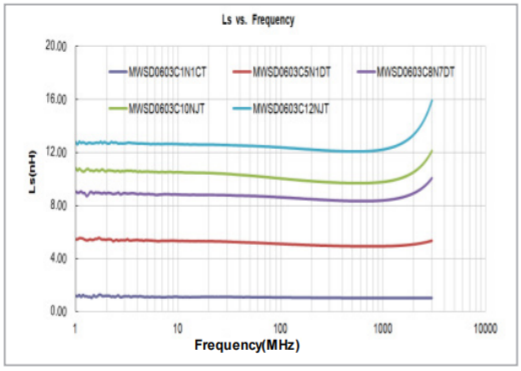
Part Number	Inductance	Tolerance	Min. Quality Factor	L/Q Test Freq.	Min.Self-resonant Frequency	Max. DC Resistance	Max. Rated Current
Units	nH	-	-	MHz	MHz	Ω	mA
Symbol	L	-	Q	Freq.	S.R.F	DCR	Ir
MWSD1608C5N6 ☐ TY01	5.6	C,D	25	250/250	5500	0.108	700
MWSD1608C10N ☐ TY01	10.1	G,H,J,K	31	250/250	4800	0.13	700
MWSD1608C10N ☐ TY02	10	G,H,J,K	10	100/100	6000	0.13	600
MWSD1608C12N ☐ TY01	12	G,H,J,K	30	250/250	4000	0.13	700
MWSD1608C15N ☐ TY02	15	G,H,J,K	10	100/100	6000	0.15	550
MWSD1608C18N ☐ TY01	18.4	G,H,J,K	35	250/250	3100	0.17	700
MWSD1608C22N ☐ TY01	22.2	G,H,J,K	38	250/250	3000	0.19	700
MWSD1608C22N ☐ TY02	22	G,H,J,K	10	100/100	4000	0.19	490
MWSD1608C39N ☐ TY01	39	G,H,J,K	11	100/100	2800	0.22	460
MWSD1608C47N ☐ TY01	47.9	G,H,J,K	38	200/200	2000	0.28	600
MWSD1608C56N ☐ TY03	56	G,H,J,K	12	100/100	2400	0.35	360
MWSD1608C68N ☐ TY01	69.8	G,H,J,K	35	200/200	1700	0.34	600
MWSD1608C68N ☐ TY02	68	G,H,J,K	35	200/250	1700	0.34	600
MWSD1608C82N ☐ TY02	82	G,H,J,K	12	100/100	2000	0.50	300
MWSD1608CR10 ☐ TY01	102.2	G,H,J,K	35	150/150	1500	0.71	400
MWSD1608CR11 ☐ TY01	111.1	G,H,J,K	32	150/150	1350	0.63	300
MWSD1608CR12 ☐ TY01	123	J,K	32	150/150	1300	0.65	300
MWSD1608CR18 ☐ TY01	180	G,H,J,K	25	100/100	1300	1.25	240
MWSD1608CR22 ☐ TY01	223.8	G,H,J,K	25	100/100	900	2.10	200
MWSD1608CR22 ☐ TY02	220	G,H,J,K	25	100/100	1200	2.10	140
MWSD1608CR27 ☐ TY02	270	G,H,J,K	24	100/100	860	2.30	170
MWSD1608CR33 ☐ TY02	330	G,H,J,K	26	100/100	960	4.80	90
MWSD1608CR33 ☐ TY05	334	G,H,J,K	22	100/100	560	3.89	150
MWSD1608CR39 ☐ TY02	390	G,H,J,K	22	100/100	400	3.70	130

※☐: Please specify the inductance tolerance code (B=±0.1nH, C=±0.2nH, S=±0.3nH, D=±0.5nH, G=±2%, H=±3%, J=±5%, K=±10%).
※: Please refer to "Measurement Notice for RF Inductors".

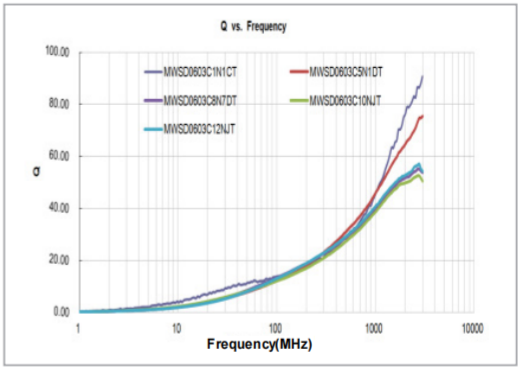
TYPICAL ELECTRICAL CHARACTERISTICS

MWSD0603C TYPE

Inductance vs. Frequency Characteristics

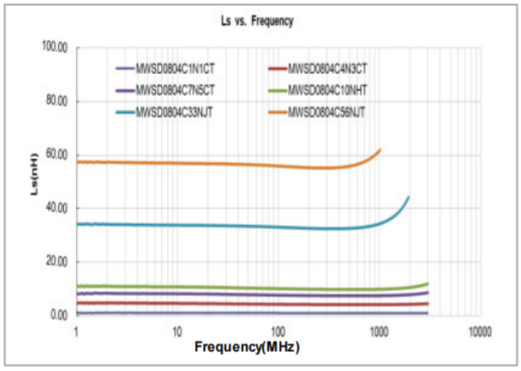


Q vs. Frequency Characteristics

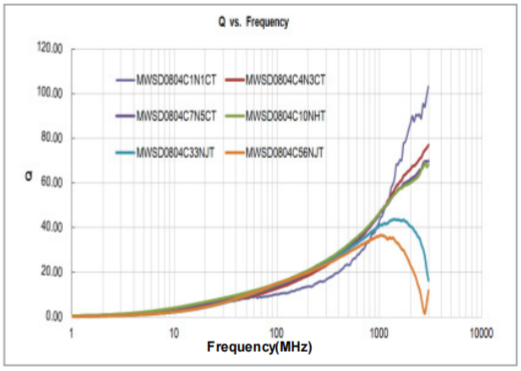


MWSD0804C TYPE

Inductance vs. Frequency Characteristics

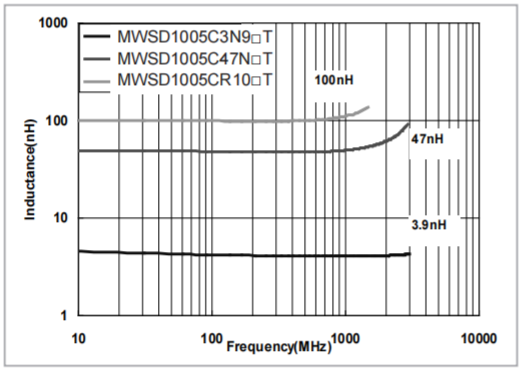


Q vs. Frequency Characteristics

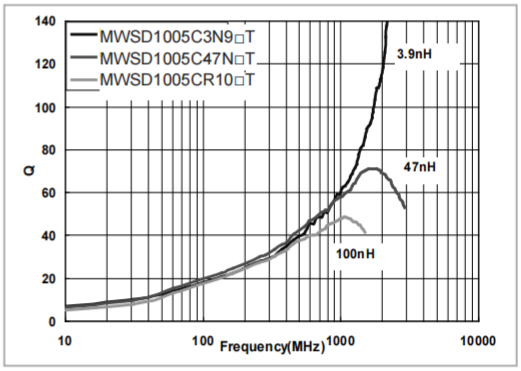


MWSD1005C TYPE

Inductance vs. Frequency Characteristics

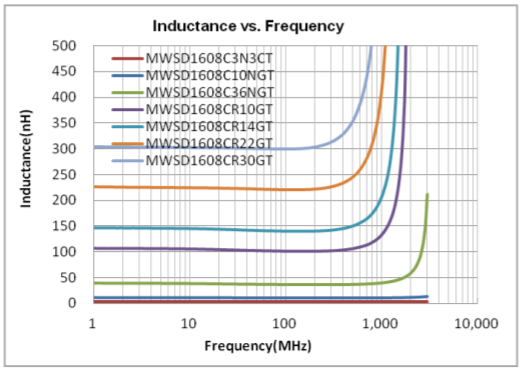


Q vs. Frequency Characteristics



MWSD1608C TYPE

Inductance vs. Frequency Characteristics



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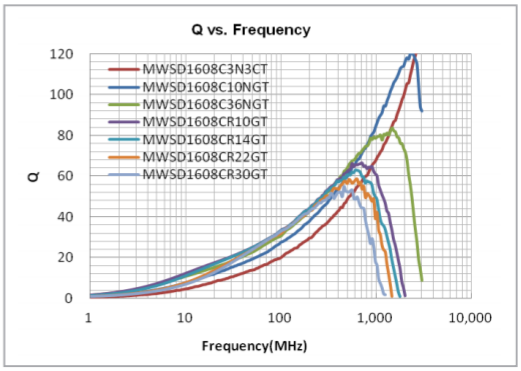

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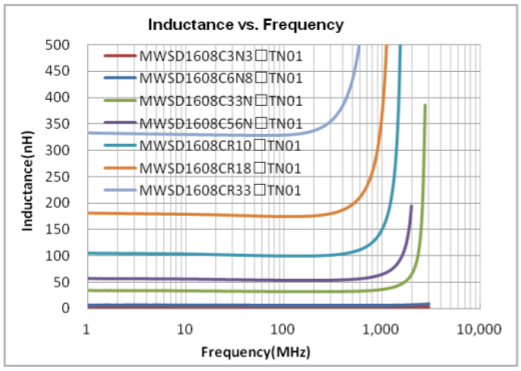
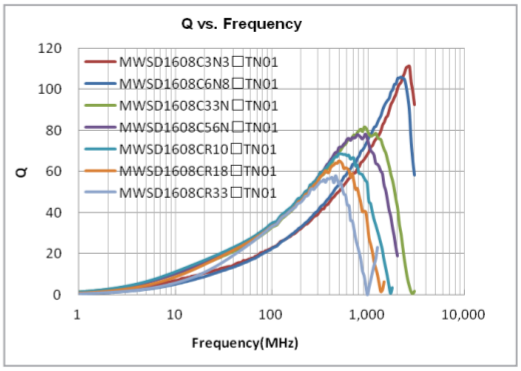
TYPICAL ELECTRICAL CHARACTERISTICS

MWSD1608C-N TYPE

Inductance vs. Frequency Characteristics

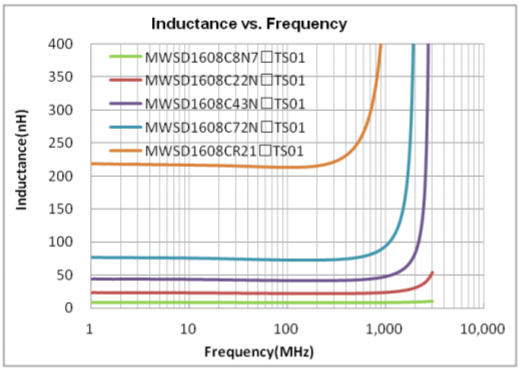


Q vs. Frequency Characteristics

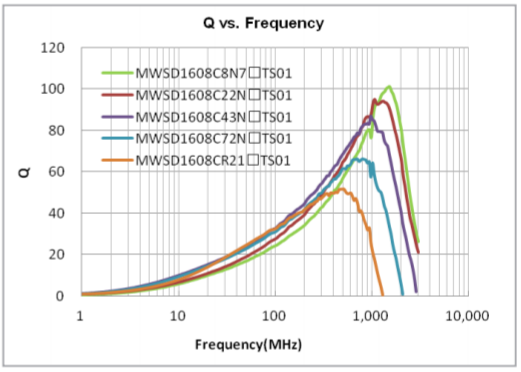


MWSD1608C-S TYPE

Inductance vs. Frequency Characteristics

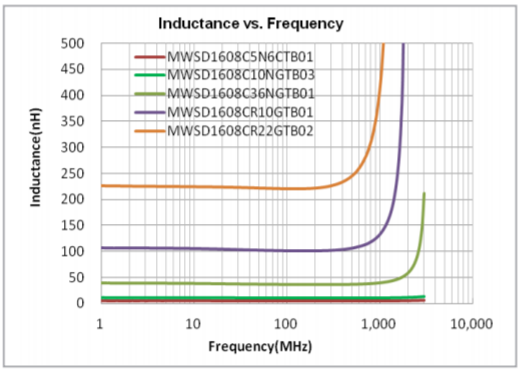


Q vs. Frequency Characteristics



MWSD1608C-B TYPE

Inductance vs. Frequency Characteristics



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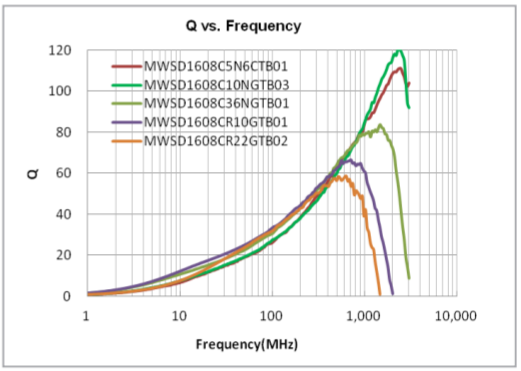
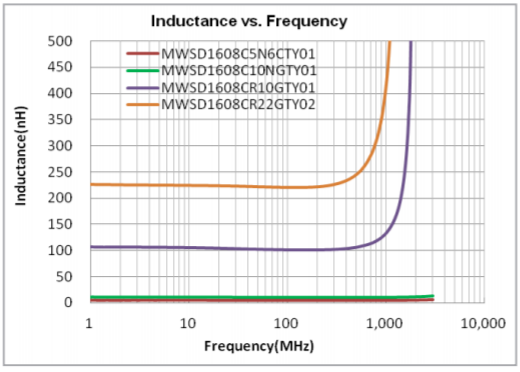


MWSD1608C-Y TYPE

Inductance vs. Frequency Characteristics



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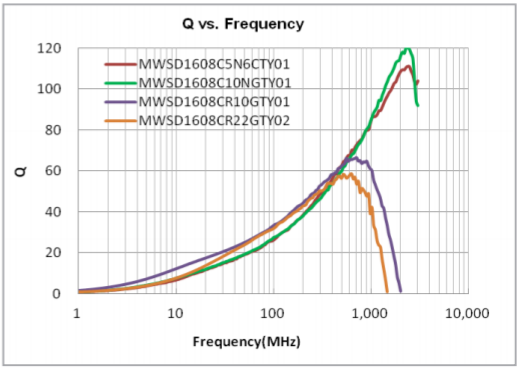

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