Wire Wound Chip Ceramic Inductor - MWSD-C-M 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-M series

APPLICATIONS

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

PRODUCT IDENTIFICATION

MWSD	1005	C	10N	□	T	M01
①	②	③	④	⑤	⑥	⑦

①

Type	
MWSD	Wire Wound Chip Inductor

②

External Dimensions
1005 [0402]
1608[0603]

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
D	±0.5nH
G	±2%
H	±3%
J	±5%

⑥

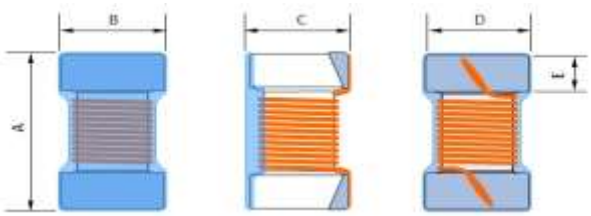
Packing	
B	Package
T	Tape & Reel

⑦

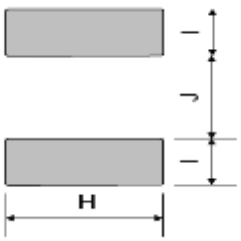
Internal Code	
M01/M11	Internal Code

SHAPE AND DIMENSIONS

MWSD1005C-M



Land Pattern



Unit: mm

Series	A	B	C	D	E	H REF.	I REF.	J REF.
MWSD1005C-M	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-M	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

MWSD1005C -M01 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
MWSD1005C1N5□TM01	1.5	B,C,D	10	100/250	>6000	0.03	1000
MWSD1005C1N6□TM01	1.6	C,D	10	100/250	>6000	0.07	750
MWSD1005C1N7□TM01	1.7	C,D	10	100/250	>6000	0.10	640
MWSD1005C1N8□TM01	1.8	C,D	10	100/250	>6000	0.16	460
MWSD1005C2N4□TM01	2.4	B,C,D	20	100/250	>6000	0.05	850
MWSD1005C2N5□TM01	2.5	B,C,D	20	100/250	>6000	0.05	850
MWSD1005C2N6□TM01	2.6	B,C,D	20	100/250	>6000	0.05	850
MWSD1005C2N7□TM01	2.7	B,C,D	20	100/250	>6000	0.05	850
MWSD1005C2N8□TM01	2.8	B,C,D	20	100/250	>6000	0.05	850
MWSD1005C2N9□TM01	2.9	B,C,D	20	100/250	>6000	0.07	750
MWSD1005C3N0□TM01	3.0	B,C,D	20	100/250	>6000	0.07	750
MWSD1005C3N1□TM01	3.1	B,C,D	20	100/250	>6000	0.13	570
MWSD1005C3N2□TM01	3.2	B,C,D	15	100/250	>6000	0.17	500
MWSD1005C3N9□TM01	3.9	C,D	25	100/250	>6000	0.07	750
MWSD1005C4N1□TM01	4.1	B,C,D	25	100/250	>6000	0.07	750
MWSD1005C4N3□TM01	4.3	B,C,D	25	100/250	>6000	0.07	750
MWSD1005C4N4□TM01	4.4	B,C,D	25	100/250	>6000	0.07	750
MWSD1005C4N5□TM01	4.5	B,C,D	25	100/250	>6000	0.07	750
MWSD1005C4N6□TM01	4.6	B,C,D	25	100/250	>6000	0.07	750
MWSD1005C4N7□TM01	4.7	B,C,D	25	100/250	>6000	0.07	750
MWSD1005C4N8□TM01	4.8	B,C,D	25	100/250	>6000	0.07	750
MWSD1005C4N9□TM01	4.9	B,C,D	25	100/250	>6000	0.12	600
MWSD1005C5N0□TM01	5.0	B,C,D	25	100/250	>6000	0.12	600
MWSD1005C5N1□TM01	5.1	B,C,D	25	100/250	>6000	0.12	600
MWSD1005C5N8□TM01	5.8	B,C,D	25	100/250	>6000	0.12	700
MWSD1005C6N2□TM01	6.2	B,C,D	25	100/250	>6000	0.09	700
MWSD1005C6N3□TM01	6.3	B,C,D	25	100/250	6000	0.09	700
MWSD1005C6N4□TM01	6.4	B,C,D	25	100/250	6000	0.09	700
MWSD1005C6N5□TM01	6.5	B,C,D	25	100/250	6000	0.09	700
MWSD1005C6N6□TM01	6.6	B,C,D	25	100/250	6000	0.09	700
MWSD1005C6N7□TM01	6.7	B,C,D	25	100/250	6000	0.09	700
MWSD1005C6N8□TM01	6.8	G,H,J	25	100/250	6000	0.09	700
MWSD1005C6N9□TM01	6.9	G,H,J	25	100/250	6000	0.13	570
MWSD1005C7N0□TM01	7.0	G,H,J	25	100/250	6000	0.13	570
MWSD1005C7N1□TM01	7.1	G,H,J	25	100/250	6000	0.13	570
MWSD1005C7N2□TM01	7.2	G,H,J	25	100/250	6000	0.13	570
MWSD1005C7N3□TM01	7.3	G,H,J	25	100/250	6000	0.13	570
MWSD1005C7N5□TM01	7.5	G,H,J	25	100/250	6000	0.13	570
MWSD1005C8N2□TM01	8.2	G,H,J	25	100/250	5500	0.14	540
MWSD1005C8N6□TM01	8.6	G,H,J	25	100/250	5500	0.14	540
MWSD1005C8N7□TM01	8.7	G,H,J	25	100/250	5500	0.14	540
MWSD1005C8N8□TM01	8.8	G,H,J	25	100/250	5500	0.14	540
MWSD1005C8N9□TM01	8.9	G,H,J	25	100/250	5500	0.14	540
MWSD1005C9N0□TM01	9.0	G,H,J	25	100/250	5500	0.14	540
MWSD1005C9N1□TM01	9.1	G,H,J	25	100/250	5500	0.14	540
MWSD1005C9N2□TM01	9.2	G,H,J	25	100/250	5500	0.14	540
MWSD1005C9N3□TM01	9.3	G,H,J	25	100/250	5500	0.14	540
MWSD1005C9N4□TM01	9.4	G,H,J	25	100/250	5500	0.14	540
MWSD1005C9N5□TM01	9.5	G,H,J	25	100/250	5500	0.14	540
MWSD1005C9N6□TM01	9.6	G,H,J	25	100/250	5500	0.14	540
MWSD1005C9N7□TM01	9.7	G,H,J	25	100/250	5500	0.14	540
MWSD1005C9N8□TM01	9.8	G,H,J	25	100/250	5500	0.14	540

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SPECIFICATIONS

MWSD1005C-M01 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
MWSD1005C9N9□TM01	9.9	G,H,J	25	100/250	5500	0.14	540
MWSD1005C10N□TM01	10	G,H,J	25	100/250	5500	0.17	500
MWSD1005C11N□TM01	11	G,H,J	30	100/250	5500	0.14	500
MWSD1005C12N□TM01	12	G,H,J	30	100/250	5500	0.14	500
MWSD1005C13N□TM01	13	G,H,J	25	100/250	5000	0.21	430
MWSD1005C15N□TM01	15	G,H,J	30	100/250	5000	0.16	460
MWSD1005C16N□TM01	16	G,H,J	25	100/250	4500	0.24	370
MWSD1005C18N□TM01	18	G,H,J	25	100/250	4500	0.27	370
MWSD1005C19N□TM01	19	G,H,J	25	100/250	4500	0.27	370
MWSD1005C20N□TM01	20	G,H,J	25	100/250	4000	0.27	370
MWSD1005C22N□TM01	22	G,H,J	25	100/250	4000	0.30	310
MWSD1005C23N□TM01	23	G,H,J	25	100/250	3800	0.30	310
MWSD1005C24N□TM01	24	G,H,J	25	100/250	3500	0.52	280
MWSD1005C27N□TM01	27	G,H,J	25	100/250	3500	0.52	280
MWSD1005C30N□TM01	30	G,H,J	25	100/250	3300	0.58	270
MWSD1005C33N□TM01	33	G,H,J	25	100/250	3200	0.63	260
MWSD1005C36N□TM01	36	G,H,J	25	100/250	3100	0.63	260
MWSD1005C39N□TM01	39	G,H,J	25	100/250	3000	0.70	250
MWSD1005C40N□TM01	40	G,H,J	25	100/250	3000	0.70	250
MWSD1005C43N□TM01	43	G,H,J	25	100/250	3000	0.70	250
MWSD1005C47N□TM01	47	G,H,J	25	100/200	2900	1.08	210
MWSD1005C51N□TM01	51	G,H,J	25	100/200	2850	1.08	210
MWSD1005C56N□TM01	56	G,H,J	25	100/200	2800	1.17	200
MWSD1005C62N□TM01	62	G,H,J	20	100/200	2600	1.82	145
MWSD1005C68N□TM01	68	G,H,J	20	100/200	2500	1.96	140
MWSD1005C72N□TM01	72	G,H,J	20	100/150	2500	2.10	135
MWSD1005C75N□TM01	75	G,H,J	20	100/150	2400	2.10	135
MWSD1005C82N□TM01	82	G,H,J	20	100/150	2300	2.24	130
MWSD1005C91N□TM01	91	G,H,J	20	100/150	2100	2.38	125
MWSD1005CR10□TM01	100	G,H,J	20	100/150	1500	2.52	120
MWSD1005CR12□TM01	120	G,H,J	20	100/150	1000	2.66	110

MWSD1005C-M11 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
MWSD1005C1N3□TM11	1.3	C,D	20	100/250	>6000	0.017	1200
MWSD1005C2N2□TM11	2.2	C,D	25	100/250	>6000	0.027	1000
MWSD1005C2N4□TM11	2.4	C,D	25	100/250	>6000	0.027	1000
MWSD1005C3N3□TM11	3.3	C,D	30	100/250	>6000	0.040	900
MWSD1005C3N4□TM11	3.4	C,D	30	100/250	>6000	0.040	900
MWSD1005C3N6□TM11	3.6	C,D	30	100/250	>6000	0.040	900
MWSD1005C3N9□TM11	3.9	C,D	30	100/250	>6000	0.040	900
MWSD1005C4N7□TM11	4.7	C,D	30	100/250	>6000	0.051	800
MWSD1005C5N1□TM11	5.1	D	30	100/250	>6000	0.051	800
MWSD1005C5N6□TM11	5.6	C,D	30	100/250	>6000	0.051	800

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SPECIFICATIONS

MWSD1608C-M01 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
MWSD1608C2N2□TM01	2.2	D	16	100/250	6000	0.042	700
MWSD1608C3N6□TM01	3.6	C,D	25	100/250	6000	0.059	850
MWSD1608C3N9□TM01	3.9	C,D	35	100/250	6000	0.059	850
MWSD1608C4N3□TM01	4.3	C,D	35	100/250	6000	0.059	850
MWSD1608C4N7□TM01	4.7	D	35	100/250	6000	0.059	850
MWSD1608C5N6□TM01	5.6	C,D	35	100/250	6000	0.082	750
MWSD1608C6N2□TM01	6.2	C,D	35	100/250	6000	0.082	750
MWSD1608C6N8□TM01	6.8	C,D	35	100/250	6000	0.082	750
MWSD1608C7N5□TM01	7.5	C,D	35	100/250	6000	0.082	750
MWSD1608C8N2□TM01	8.2	C,D	35	100/250	6000	0.11	650
MWSD1608C8N7□TM01	8.7	C,D	35	100/250	6000	0.11	650
MWSD1608C9N1□TM01	9.1	C,D	35	100/250	6000	0.11	650
MWSD1608C9N5□TM01	9.5	D	35	100/250	6000	0.11	650
MWSD1608C10N□TM01	10	G,J	35	100/250	6000	0.11	650
MWSD1608C11N□TM01	11	G,J	35	100/250	6000	0.11	650
MWSD1608C12N□TM01	12	G,J	35	100/250	6000	0.13	600
MWSD1608C13N□TM01	13	G,J	35	100/250	6000	0.13	600
MWSD1608C15N□TM01	15	G,J	40	100/250	5500	0.13	600
MWSD1608C16N□TM01	16	G,J	40	100/250	5500	0.16	550
MWSD1608C18N□TM01	18	G,J	40	100/250	5000	0.16	550
MWSD1608C20N□TM01	20	G,J	40	100/250	4300	0.16	550
MWSD1608C22N□TM01	22	G,J	40	100/250	3900	0.17	500
MWSD1608C24N□TM01	24	G,J	40	100/250	3800	0.21	500
MWSD1608C27N□TM01	27	G,J	40	100/250	3700	0.21	440
MWSD1608C30N□TM01	30	G,J	40	100/250	3300	0.23	420
MWSD1608C33N□TM01	33	G,J	40	100/250	3200	0.23	420
MWSD1608C36N□TM01	36	G,J	40	100/250	2900	0.26	400
MWSD1608C39N□TM01	39	G,J	40	100/250	2800	0.26	400
MWSD1608C43N□TM01	43	G,J	40	100/200	2700	0.29	380
MWSD1608C47N□TM01	47	G,J	38	100/200	2600	0.29	380
MWSD1608C51N□TM01	51	G,J	38	100/200	2500	0.33	370
MWSD1608C56N□TM01	56	G,J	38	100/200	2400	0.35	360
MWSD1608C62N□TM01	62	G,J	38	100/200	2300	0.51	280
MWSD1608C68N□TM01	68	G,J	38	100/200	2200	0.38	340
MWSD1608C72N□TM01	72	G,J	34	100/150	2100	0.56	270
MWSD1608C75N□TM01	75	G,J	34	100/150	2050	0.56	270
MWSD1608C82N□TM01	82	G,J	34	100/150	2000	0.60	250
MWSD1608C91N□TM01	91	G,J	34	100/150	1900	0.64	230
MWSD1608CR10□TM01	100	G,J	34	100/150	1800	0.68	220
MWSD1608CR11□TM01	110	G,J,	32	100/150	1700	1.20	200
MWSD1608CR12□TM01	120	G,J	32	100/150	1600	1.30	180
MWSD1608CR13□TM01	130	G,J	32	100/150	1450	1.40	170
MWSD1608CR15□TM01	150	G,J	32	100/150	1400	1.50	160
MWSD1608CR16□TM01	160	G,J	32	100/150	1350	2.10	150
MWSD1608CR18□TM01	180	G,J	25	100/100	1300	2.20	140
MWSD1608CR20□TM01	200	G,J	25	100/100	1250	2.40	120
MWSD1608CR22□TM01	220	G,J	25	100/100	1200	2.50	120
MWSD1608CR27□TM01	270	G,J	30	100/100	960	3.40	110
MWSD1608CR33□TM01	330	G,J	30	100/100	800	5.50	85
MWSD1608CR39□TM01	390	G,J	30	100/100	800	6.20	80
MWSD1608CR47□TM01	470	G,J	30	100/100	700	7.00	75

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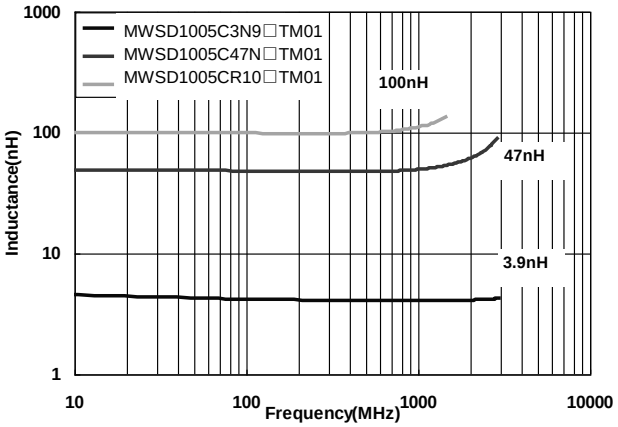
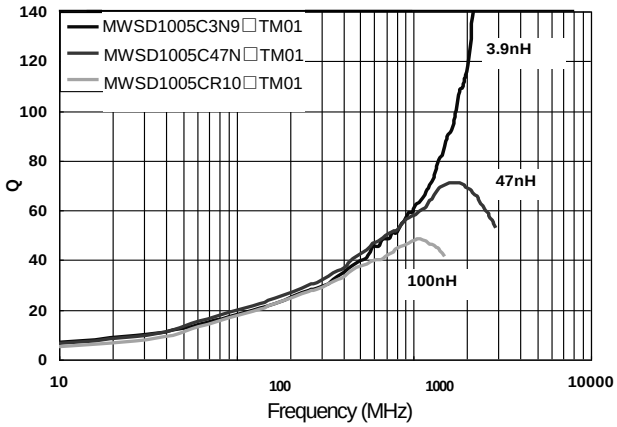
TYPICAL ELECTRICAL CHARACTERISTICS

MWSD1005C-M TYPE

Inductance vs. Frequency Characteristics

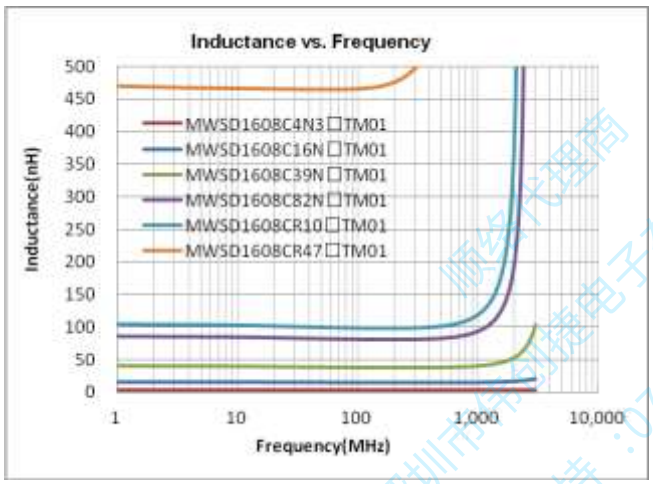


Q vs. Frequency Characteristics



MWSD1608C-M TYPE

Inductance vs. Frequency Characteristics



Q vs. Frequency Characteristics