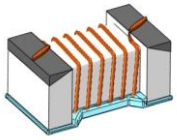
Wire Wound Chip Ceramic Inductor
- MWSD-C-M Series

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 such as GSM, CDMA, TD-LTE, FDD-LTE, PDC, 5GNR, etc.
- Bluetooth, W-LAN, Broadband network

PRODUCT IDENTIFICATION

MWSD	1005	C	10N	S	T	M01
①	②	③	④	⑤	⑥	⑦

①

Type	
MWSD	Wire Wound Chip Inductor

②

External Dimensions
1005 [0402]

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%

⑥

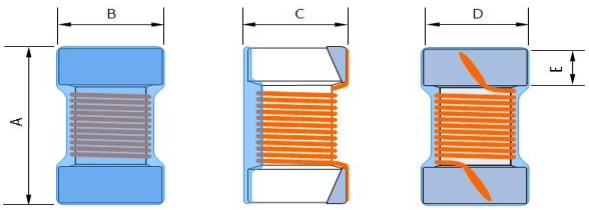
Packing	
B	Bulk Package
T	Tape & Reel

⑦

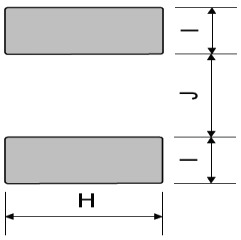
Internal Code	
M01/M11	Internal Code

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

Sunlord Industrial Park, Dafuyuan Industrial Zone, Guanlan, Shenzhen, China 518110 **Tel**: 0086-755-29832660 **Fax**: 0086-755-82269029 **E-Mail**: sunlord@sunlordinc.com

SPECIFICATIONS

MWSD1005C -M01 TYPE

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

Sunlord Industrial Park, Dafuyuan Industrial Zone, Guanlan, Shenzhen, China 518110 **Tel**: 0086-755-29832660 **Fax**: 0086-755-82269029 **E-Mail**: sunlord@sunlordinc.com

SPECIFICATIONS

MWSD1005C-M01 TYPE

Part Number	Inductance	Tolerance	Min. Quality Factor	L/Q Test Freq.	Max. DC Resistance	Max. Rated Current	Min. Self-resonant Frequency
Units	nH	-	-	MHz	Ω	mA	MHz
Symbol	L	-	Q	Freq.	DCR	Ir	S.R.F
MWSD1005C9N8□TM01	9.8	G,H,J	25	100/250	0.14	540	5500
MWSD1005C9N9□TM01	9.9	G,H,J	25	100/250	0.14	540	5500
MWSD1005C10N□TM01	10	G,H,J	25	100/250	0.17	500	5500
MWSD1005C11N□TM01	11	G,H,J	30	100/250	0.14	500	5500
MWSD1005C12N□TM01	12	G,H,J	30	100/250	0.14	500	5500
MWSD1005C13N□TM01	13	G,H,J	25	100/250	0.21	430	5000
MWSD1005C15N□TM01	15	G,H,J	30	100/250	0.16	460	5000
MWSD1005C16N□TM01	16	G,H,J	25	100/250	0.24	370	4500
MWSD1005C18N□TM01	18	G,H,J	25	100/250	0.27	370	4500
MWSD1005C19N□TM01	19	G,H,J	25	100/250	0.27	370	4500
MWSD1005C20N□TM01	20	G,H,J	25	100/250	0.27	370	4000
MWSD1005C22N□TM01	22	G,H,J	25	100/250	0.30	310	4000
MWSD1005C23N□TM01	23	G,H,J	25	100/250	0.30	310	3800
MWSD1005C24N□TM01	24	G,H,J	25	100/250	0.52	280	3500
MWSD1005C27N□TM01	27	G,H,J	25	100/250	0.52	280	3500
MWSD1005C30N□TM01	30	G,H,J	25	100/250	0.58	270	3300
MWSD1005C33N□TM01	33	G,H,J	25	100/250	0.63	260	3200
MWSD1005C36N□TM01	36	G,H,J	25	100/250	0.63	260	3100
MWSD1005C39N□TM01	39	G,H,J	25	100/250	0.70	250	3000
MWSD1005C40N□TM01	40	G,H,J	25	100/250	0.70	250	3000
MWSD1005C43N□TM01	43	G,H,J	25	100/250	0.70	250	3000
MWSD1005C47N□TM01	47	G,H,J	25	100/200	1.08	210	2900
MWSD1005C51N□TM01	51	G,H,J	25	100/200	1.08	210	2850
MWSD1005C56N□TM01	56	G,H,J	25	100/200	1.17	200	2800
MWSD1005C62N□TM01	62	G,H,J	20	100/200	1.82	145	2600
MWSD1005C68N□TM01	68	G,H,J	20	100/200	1.96	140	2500
MWSD1005C72N□TM01	72	G,H,J	20	100/150	2.10	135	2500
MWSD1005C75N□TM01	75	G,H,J	20	100/150	2.10	135	2400
MWSD1005C82N□TM01	82	G,H,J	20	100/150	2.24	130	2300
MWSD1005C91N□TM01	91	G,H,J	20	100/150	2.38	125	2100
MWSD1005CR10□TM01	100	G,H,J	20	100/150	2.52	120	1500
MWSD1005CR12□TM01	120	G,H,J	20	100/150	2.66	110	1000

MWSD1005C-M11 TYPE

Part Number	Inductance	Tolerance	Min. Quality Factor	L/Q Test Freq.	Max. DC Resistance	Max. Rated Current	Min. Self-resonant Frequency
Units	nH	-	-	MHz	Ω	mA	MHz
Symbol	L	-	Q	Freq.	DCR	Ir	S.R.F
MWSD1005C1N3□TM11	1.3	C,D	20	100/250	0.017	1200	>6000
MWSD1005C2N2□TM11	2.2	C,D	25	100/250	0.027	1000	>6000
MWSD1005C2N4□TM11	2.4	C,D	25	100/250	0.027	1000	>6000
MWSD1005C3N3□TM11	3.3	C,D	30	100/250	0.040	900	>6000
MWSD1005C3N4□TM11	3.4	C,D	30	100/250	0.040	900	>6000
MWSD1005C3N6□TM11	3.6	C,D	30	100/250	0.040	900	>6000
MWSD1005C3N9□TM11	3.9	C,D	30	100/250	0.040	900	>6000
MWSD1005C4N7□TM11	4.7	C,D	30	100/250	0.051	800	>6000
MWSD1005C5N1□TM11	5.1	D	30	100/250	0.051	800	>6000
MWSD1005C5N6□TM11	5.6	C,D	30	100/250	0.051	800	>6000

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

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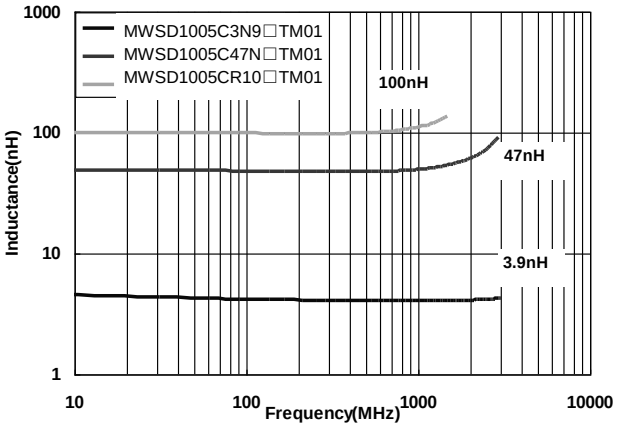
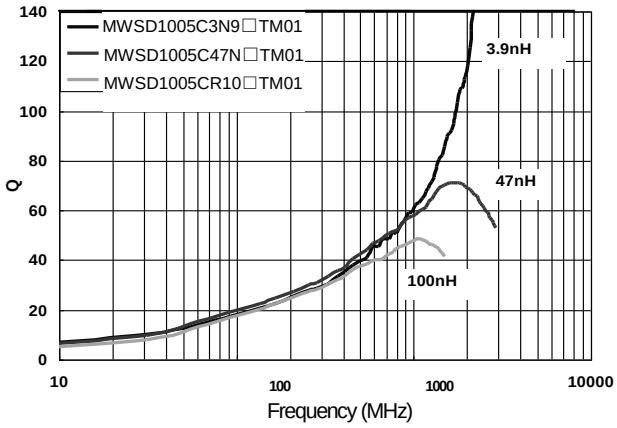
TYPICAL ELECTRICAL CHARACTERISTICS

MWSD1005C-M TYPE

Inductance vs. Frequency Characteristics



Q vs. Frequency Characteristics



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