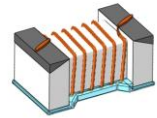


Operating Temp. : -40°C~+125°C



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 circuit in telecommunication and other equipments
- Mobile phones such as GSM, CDMA, TD-LTE, FDD-LTE, PDC, 5G NR, etc.
- Bluetooth, W-LAN, Broadband network

PRODUCT IDENTIFICATION

The diagram illustrates the components of the inductor code **1005MWSDC10N1T**, which is used to identify the part's specifications. The code is broken down into six parts, each with a circled number and a corresponding table explaining its meaning.

- ① MWSD**: Type. MWSD stands for Wire Wound Chip Inductor.
- ② 1005**: External Dimensions. 1005 [0402] indicates the physical dimensions of the component.
- ③ C**: Material Code. C stands for Ceramic.
- ④ 10N**: Nominal Inductance. 10N indicates a nominal inductance of 10nH.
- ⑤ 1**: Inductance Tolerance. 1 indicates a tolerance of $\pm 1\%$.
- ⑥ T**: Packing. T indicates the component is supplied in Tape & Reel.

Type	
MWSD	Wire Wound Chip Inductor

External Dimensions	
1005 [0402]	

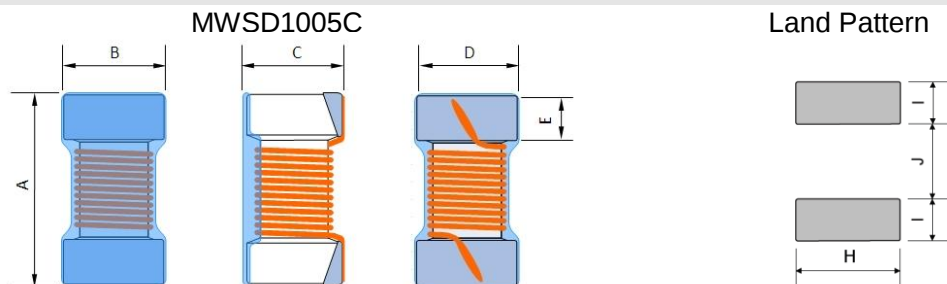
Material Code	
C	Ceramic

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

Inductance Tolerance	
B	$\pm 0.1\%$
C	$\pm 0.2\%$
S	$\pm 0.3\%$
D	$\pm 0.5\%$
G	$\pm 2\%$
H	$\pm 3\%$
J	$\pm 5\%$

Packing	
B	Bulk Package
T	Tape & Reel

SHAPE AND DIMENSIONS



Unit: mm

Series	A	B	C	D	E	H REF.	I REF.	J REF.
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

SPECIFICATIONS

MWSD1005C TYPE

Part Number	Inductance	Tolerance	Min. Quality Factor	L/Q Test Freq.	Max. DC Resistanc	Max. Rated Current	Min. Self-resonant Frequency
Units	nH	-	-	MHz	Ω	mA	MHz
Symbol	L	-	Q	Freq.	DCR	Ir	S.R.F
MWSD1005C0N8□T	0.8	B,C,S,D,K	14	250	0.035	1000	>6000
MWSD1005C1N0□T	1.0	B,C,S,D,K	10	250	0.085	650	>6000
MWSD1005C1N8□T	1.8	B,C,S,D,J,K	20	250	0.043	950	>6000
MWSD1005C1N9□T	1.9	B,C,S,D,J,K	20	250	0.043	950	>6000
MWSD1005C2N0□T	2.0	B,C,S,D,J,K	23	250	0.043	950	>6000
MWSD1005C2N2□T	2.2	B,C,S,D,J,K	22	250	0.058	820	>6000
MWSD1005C2N4□T	2.4	B,C,S,D,J,K	18	250	0.091	650	>6000
MWSD1005C2N7□T	2.7	B,C,S,D,J,K	24	250	0.050	900	>6000
MWSD1005C3N0□T	3.0	S,D,K	24	250	0.063	790	>6000
MWSD1005C3N3□T	3.3	B,C,S,D,J,K	24	250	0.063	790	>6000
MWSD1005C3N6□T	3.6	B,C,S,D,J,K	24	250	0.063	790	>6000
MWSD1005C3N9□T	3.9	B,C,S,D,J,K	24	250	0.063	790	>6000
MWSD1005C4N1□T	4.1	B,C,S,D,J,K	22	250	0.070	700	>6000
MWSD1005C4N3□T	4.3	B,C,S,D,J,K	22	250	0.070	750	>6000
MWSD1005C4N7□T	4.7	B,C,S,D,J,K	20	250	0.120	570	>6000
MWSD1005C5N1□T	5.1	B,C,S,D,J,K	23	250	0.100	620	>6000
MWSD1005C5N6□T	5.6	B,C,S,D,J,K	25	250	0.078	710	>6000
MWSD1005C5N8□T	5.8	B,C,S,D,J,K	25	250	0.078	710	>6000
MWSD1005C6N2□T	6.2	B,C,S,D,J,K	25	250	0.078	710	>6000
MWSD1005C6N8□T	6.8	G,H,J,K	24	250	0.105	610	6000
MWSD1005C7N5□T	7.5	G,H,J,K	25	250	0.12	570	6000
MWSD1005C8N2□T	8.2	G,H,J,K	25	250	0.11	590	5500
MWSD1005C8N7□T	8.7	G,H,J,K	25	250	0.11	590	5500
MWSD1005C9N0□T	9.0	G,H,J,K	25	250	0.11	590	5500
MWSD1005C9N1□T	9.1	G,H,J,K	25	250	0.11	590	5500
MWSD1005C10N□T	10	G,H,J,K	24	250	0.15	510	5500
MWSD1005C11N□T	11	G,H,J,K	26	250	0.12	570	5500
MWSD1005C12N□T	12	G,H,J,K	26	250	0.12	570	5500
MWSD1005C13N□T	13	G,H,J,K	24	250	0.18	460	5000
MWSD1005C14N□T	14	G,H,J,K	26	250	0.21	430	5000
MWSD1005C15N□T	15	G,H,J,K	26	250	0.21	430	5000
MWSD1005C16N□T	16	G,H,J,K	25	250	0.28	370	4500
MWSD1005C18N□T	18	G,H,J,K	25	250	0.28	370	4500
MWSD1005C19N□T	19	G,H,J,K	26	250	0.24	400	4000
MWSD1005C20N□T	20	G,H,J,K	26	250	0.24	400	4000
MWSD1005C22N□T	22	G,H,J,K	25	250	0.36	330	4000
MWSD1005C23N□T	23	G,H,J,K	25	250	0.36	330	3800
MWSD1005C24N□T	24	G,H,J,K	25	250	0.36	330	3500
MWSD1005C27N□T	27	G,H,J,K	25	250	0.38	320	3500
MWSD1005C30N□T	30	G,H,J,K	25	250	0.38	320	3300
MWSD1005C33N□T	33	G,H,J,K	24	250	0.55	260	3200
MWSD1005C36N□T	36	G,H,J,K	25	250	0.60	250	3100
MWSD1005C38N□T	38	G,H,J,K	25	250	0.60	250	3000
MWSD1005C39N□T	39	G,H,J,K	25	250	0.60	250	3000
MWSD1005C43N□T	43	G,H,J,K	25	250	0.68	240	3000
MWSD1005C47N□T	47	G,H,J,K	25	250	0.95	200	2900
MWSD1005C51N□T	51	G,H,J,K	25	250	0.95	200	2850
MWSD1005C56N□T	56	G,H,J,K	25	250	1.05	190	2800
MWSD1005C62N□T	62	G,H,J,K	25	250	1.05	190	2600
MWSD1005C68N□T	68	G,H,J,K	25	250	1.35	170	2500
MWSD1005C75N□T	75	G,H,J,K	24	250	1.75	140	2400

SPECIFICATIONS

MWSD1005C TYPE

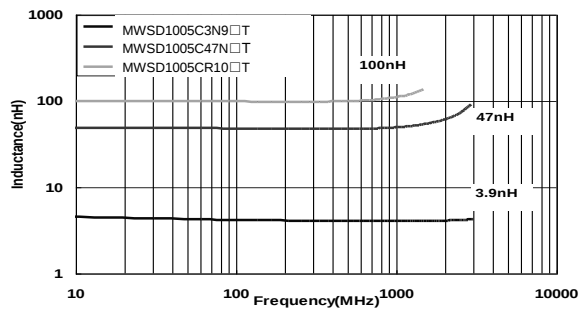
Part Number	Inductance	Tolerance	Min. Quality Factor	L/Q Test Freq.	Max. DC Resistanc	Max. Rated Current	Min. Self-resonant Frequency
Units	nH	-	-	MHz	Ω	mA	MHz
Symbol	L	-	Q	Freq.	DCR	I _r	S.R.F
MWSD1005C82N□T	82	G,H,J,K	25	250	1.90	140	2300
MWSD1005C91N□T	91	G,H,J,K	25	250	1.95	140	2100
MWSD1005C96N□T	96	G,H,J,K	24	250	2.06	130	1500
MWSD1005CR10□T	100	G,H,J,K	24	250	2.06	130	1500
MWSD1005CR11□T	110	G,H,J,K	25	250	2.38	120	1200
MWSD1005CR12□T	120	J,K	25	250	2.66	110	1000

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

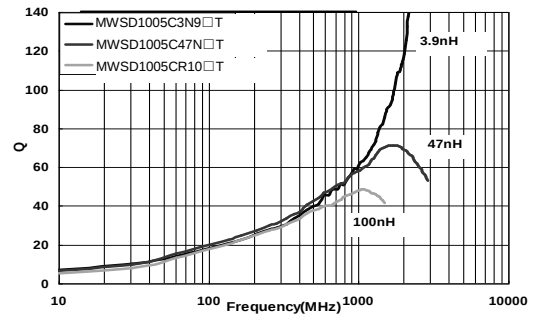
TYPICAL ELECTRICAL CHARACTERISTICS

MWSD1005C TYPE

Inductance vs. Frequency Characteristics



Q vs. Frequency Characteristics



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Fixed Inductors](#) category:

Click to view products by [Sunlord](#) manufacturer:

Other Similar products are found below :

[MLZ1608M6R8WTD25](#) [MLZ1608N6R8LT000](#) [MLZ1608N3R3LTD25](#) [MLZ1608N3R3LT000](#) [MLZ1608N150LT000](#)
[MLZ1608M150WTD25](#) [MLZ1608M3R3WTD25](#) [MLZ1608M3R3WT000](#) [MLZ1608M150WT000](#) [MLZ1608A1R5WT000](#)
[MLZ1608N1R5LT000](#) [B82432C1333K000](#) [PCMB053T-1R0MS](#) [PCMB053T-1R5MS](#) [PCMB104T-1R5MS](#) [CR32NP-100KC](#) [CR32NP-151KC](#) [CR32NP-180KC](#) [CR32NP-181KC](#) [CR32NP-1R5MC](#) [CR32NP-390KC](#) [CR32NP-3R9MC](#) [CR32NP-680KC](#) [CR32NP-820KC](#)
[CR32NP-8R2MC](#) [CR43NP-390KC](#) [CR43NP-560KC](#) [CR43NP-680KC](#) [CR54NP-181KC](#) [CR54NP-470LC](#) [CR54NP-820KC](#) [CR54NP-8R5MC](#)
[MGDQ4-00004-P](#) [MGDU1-00016-P](#) [MHL1ECTTP18NJ](#) [MHL1JCTTD12NJ](#) [PE-51506NL](#) [PE-53601NL](#) [PE-53630NL](#) [PE-53824SNLT](#) [PE-62892NL](#) [PE-92100NL](#) [PG0434.801NLT](#) [PG0936.113NLT](#) [PM06-2N7](#) [PM06-39NJ](#) [HC2LP-R47-R](#) [HC2-R47-R](#) [HC3-2R2-R](#) [HC8-1R2-R](#)