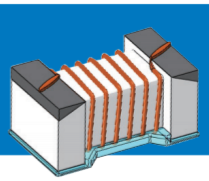
# Wire Wound Chip Ceramic Inductor – MWSD – C – M8X Series



Operating temp. : -40°C ~+125°C

## FEATURES

- Small chip suitable for surface mounting
- High rated current can be applied because of lower DC resistance than MWSD-C-M series
- Tight inductance tolerance and high reliability
- Single-sided package, thinner than SDWL-C-M8X series

## APPLICATIONS

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

## PRODUCT IDENTIFICATION

| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|
| MWSD | 1005 | C | 10N | □ | T | M81 |

**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 |
| S | ±0.3nH |
| D | ±0.5nH |
| G | ±2% |
| H | ±3% |
| J | ±5% |
| K | ±10% |

**6**

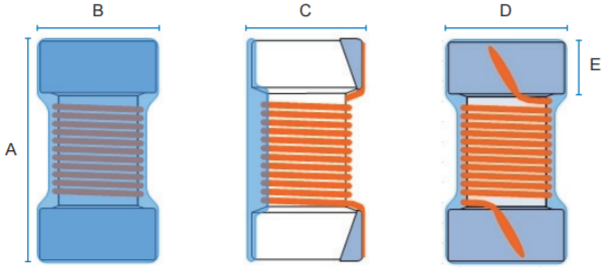
| Packing | |
|---|---|
| B | Bulk Package |
| T | Tape & Reel |

**7**

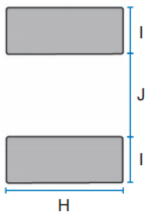
| Internal Code | |
|---|---|
| M81 | Internal Code |

## SHAPE AND DIMENSIONS

MWSD1005C-M8X




Land Pattern




Unit: mm

| Series | A | B | C | D | E REF. | H REF. | I REF. | J REF. |
|---|---|---|---|---|---|---|---|---|
| MWSD1005C-M8X | 1.1±0.1 | 0.53±0.1 | 0.6±0.1 | 0.5±0.1 | 0.20 | 0.65 | 0.35 | 0.50 |
| MWSD1608C-M8X | 1.60±0.20 | 1.00±0.20 | 0.90±0.20 | 0.95 | 0.30 | 1.02 | 0.64 | 0.64 |

**SPECIFICATIONS** MWSD1005C -M81 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 | GHz | Ω | mA |
| Symbol | L | - | Q | Freq. | S.R.F | DCR | Ir |
| MWSD1005C1N3 ☐ TM81 | 1.3 | C,S,D,K | 20 | 100/250 | 18.0 | 0.012 | 3150 |
| MWSD1005C1N5 ☐ TM81 | 1.5 | B,C,S,D,K | 20 | 100/250 | 18.0 | 0.028 | 2100 |
| MWSD1005C1N6 ☐ TM81 | 1.6 | B,C,S,D,K | 20 | 100/250 | 18.0 | 0.045 | 1450 |
| MWSD1005C1N7 ☐ TM81 | 1.7 | B,C,S,D,K | 20 | 100/250 | 18.0 | 0.065 | 1150 |
| MWSD1005C1N8 ☐ TM81 | 1.8 | B,C,S,D,K | 20 | 100/250 | 18.0 | 0.065 | 1150 |
| MWSD1005C2N2 ☐ TM81 | 2.2 | B,C,S,D,K | 30 | 100/250 | 15.5 | 0.022 | 2530 |
| MWSD1005C2N3 ☐ TM81 | 2.3 | B,C,S,D,K | 30 | 100/250 | 15.5 | 0.022 | 2530 |
| MWSD1005C2N4 ☐ TM81 | 2.4 | B,C,S,D,K | 30 | 100/250 | 15.5 | 0.022 | 2530 |
| MWSD1005C2N5 ☐ TM81 | 2.5 | B,C,S,D,K | 30 | 100/250 | 15.5 | 0.030 | 2100 |
| MWSD1005C2N6 ☐ TM81 | 2.6 | B,C,S,D,K | 30 | 100/250 | 14.5 | 0.035 | 1950 |
| MWSD1005C2N7 ☐ TM81 | 2.7 | B,C,S,D,K | 28 | 100/250 | 14.0 | 0.047 | 1500 |
| MWSD1005C2N8 ☐ TM81 | 2.8 | B,C,S,D,K | 27 | 100/250 | 13.5 | 0.047 | 1500 |
| MWSD1005C2N9 ☐ TM81 | 2.9 | B,C,S,D,K | 25 | 100/250 | 12.5 | 0.047 | 1500 |
| MWSD1005C3N0 ☐ TM81 | 3.0 | B,C,S,D,K | 20 | 100/250 | 12.5 | 0.063 | 1350 |
| MWSD1005C3N3 ☐ TM81 | 3.3 | B,C,S,D,K | 30 | 100/250 | 14.0 | 0.030 | 2000 |
| MWSD1005C3N4 ☐ TM81 | 3.4 | B,C,S,D,J,K | 30 | 100/250 | 10.0 | 0.030 | 1950 |
| MWSD1005C3N5 ☐ TM81 | 3.5 | B,C,S,D,J,K | 30 | 100/250 | 10.0 | 0.030 | 1950 |
| MWSD1005C3N6 ☐ TM81 | 3.6 | B,C,S,D,J,K | 30 | 100/250 | 10.0 | 0.030 | 1950 |
| MWSD1005C3N7 ☐ TM81 | 3.7 | B,C,S,D,J,K | 35 | 100/250 | 10.0 | 0.030 | 1950 |
| MWSD1005C3N8 ☐ TM81 | 3.8 | B,C,S,D,J,K | 35 | 100/250 | 10.0 | 0.030 | 1950 |
| MWSD1005C3N9 ☐ TM81 | 3.9 | B,C,S,D,J,K | 35 | 100/250 | 10.0 | 0.030 | 1950 |
| MWSD1005C4N0 ☐ TM81 | 4.0 | B,C,S,D,J,K | 30 | 100/250 | 10.0 | 0.030 | 1950 |
| MWSD1005C4N1 ☐ TM81 | 4.1 | B,C,S,D,J,K | 30 | 100/250 | 9.6 | 0.044 | 1800 |
| MWSD1005C4N2 ☐ TM81 | 4.2 | B,C,S,D,J,K | 30 | 100/250 | 9.6 | 0.044 | 1800 |
| MWSD1005C4N3 ☐ TM81 | 4.3 | B,C,S,D,J,K | 32 | 100/250 | 9.6 | 0.044 | 1800 |
| MWSD1005C4N4 ☐ TM81 | 4.4 | B,C,S,D,J,K | 34 | 100/250 | 9.6 | 0.052 | 1600 |
| MWSD1005C4N5 ☐ TM81 | 4.5 | B,C,S,D,J,K | 34 | 100/250 | 9.6 | 0.060 | 1450 |
| MWSD1005C4N6 ☐ TM81 | 4.6 | B,C,S,D,J,K | 32 | 100/250 | 9.6 | 0.060 | 1450 |
| MWSD1005C4N7 ☐ TM81 | 4.7 | B,C,S,D,J,K | 31 | 100/250 | 8.0 | 0.071 | 1200 |
| MWSD1005C4N8 ☐ TM81 | 4.8 | B,C,S,D,J,K | 30 | 100/250 | 8.0 | 0.071 | 1200 |
| MWSD1005C4N9 ☐ TM81 | 4.9 | B,C,S,D,J,K | 27 | 100/250 | 8.0 | 0.071 | 1200 |
| MWSD1005C5N0 ☐ TM81 | 5.0 | B,C,S,D,J,K | 32 | 100/250 | 10.0 | 0.040 | 1770 |
| MWSD1005C5N1 ☐ TM81 | 5.1 | B,C,S,D,J,K | 35 | 100/250 | 8.0 | 0.040 | 1770 |
| MWSD1005C5N2 ☐ TM81 | 5.2 | B,C,S,D,J,K | 35 | 100/250 | 8.0 | 0.040 | 1770 |
| MWSD1005C5N3 ☐ TM81 | 5.3 | B,C,S,D,J,K | 35 | 100/250 | 8.0 | 0.040 | 1770 |
| MWSD1005C5N4 ☐ TM81 | 5.4 | B,C,S,D,J,K | 35 | 100/250 | 8.0 | 0.040 | 1770 |
| MWSD1005C5N5 ☐ TM81 | 5.5 | B,C,S,D,J,K | 35 | 100/250 | 8.0 | 0.040 | 1770 |
| MWSD1005C5N6 ☐ TM81 | 5.6 | B,C,S,D,J,K | 35 | 100/250 | 8.0 | 0.040 | 1770 |
| MWSD1005C5N7 ☐ TM81 | 5.7 | B,C,S,D,J,K | 30 | 100/250 | 8.0 | 0.040 | 1770 |
| MWSD1005C5N8 ☐ TM81 | 5.8 | B,C,S,D,J,K | 30 | 100/250 | 8.0 | 0.040 | 1770 |
| MWSD1005C5N9 ☐ TM81 | 5.9 | B,C,S,D,J,K | 30 | 100/250 | 8.0 | 0.040 | 1770 |
| MWSD1005C6N0 ☐ TM81 | 6.0 | B,C,S,D,J,K | 32 | 100/250 | 8.0 | 0.056 | 1600 |
| MWSD1005C6N1 ☐ TM81 | 6.1 | B,C,S,D,J,K | 32 | 100/250 | 8.0 | 0.056 | 1600 |
| MWSD1005C6N2 ☐ TM81 | 6.2 | B,C,S,D,J,K | 33 | 100/250 | 8.0 | 0.056 | 1600 |
| MWSD1005C6N3 ☐ TM81 | 6.3 | G,H,J,K | 33 | 100/250 | 7.8 | 0.057 | 1600 |
| MWSD1005C6N4 ☐ TM81 | 6.4 | G,H,J,K | 33 | 100/250 | 7.0 | 0.065 | 1380 |
| MWSD1005C6N5 ☐ TM81 | 6.5 | G,H,J,K | 32 | 100/250 | 7.0 | 0.065 | 1380 |
| MWSD1005C6N6 ☐ TM81 | 6.6 | G,H,J,K | 30 | 100/250 | 7.0 | 0.078 | 1280 |

**SPECIFICATIONS** MWSD1005C -M81 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 | GHz | Ω | mA |
| Symbol | L | - | Q | Freq. | S.R.F | DCR | Ir |
| MWSD1005C6N7 ☐ TM81 | 6.7 | G,H,J,K | 30 | 100/250 | 7.0 | 0.078 | 1280 |
| MWSD1005C6N8 ☐ TM81 | 6.8 | G,H,J,K | 30 | 100/250 | 7.0 | 0.068 | 1450 |
| MWSD1005C6N9 ☐ TM81 | 6.9 | G,H,J,K | 32 | 100/250 | 8.5 | 0.069 | 1420 |
| MWSD1005C7N0 ☐ TM81 | 7.0 | G,H,J,K | 33 | 100/250 | 8.0 | 0.069 | 1420 |
| MWSD1005C7N1 ☐ TM81 | 7.1 | G,H,J,K | 32 | 100/250 | 8.0 | 0.069 | 1420 |
| MWSD1005C7N2 ☐ TM81 | 7.2 | G,H,J,K | 32 | 100/250 | 7.0 | 0.050 | 1700 |
| MWSD1005C7N3 ☐ TM81 | 7.3 | G,H,J,K | 32 | 100/250 | 7.0 | 0.050 | 1700 |
| MWSD1005C7N4 ☐ TM81 | 7.4 | G,H,J,K | 30 | 100/250 | 7.0 | 0.050 | 1700 |
| MWSD1005C7N5 ☐ TM81 | 7.5 | G,H,J,K | 35 | 100/250 | 7.0 | 0.050 | 1700 |
| MWSD1005C7N6 ☐ TM81 | 7.6 | G,H,J,K | 30 | 100/250 | 7.0 | 0.050 | 1700 |
| MWSD1005C7N7 ☐ TM81 | 7.7 | G,H,J,K | 30 | 100/250 | 7.0 | 0.050 | 1700 |
| MWSD1005C7N8 ☐ TM81 | 7.8 | G,H,J,K | 30 | 100/250 | 7.0 | 0.050 | 1700 |
| MWSD1005C7N9 ☐ TM81 | 7.9 | G,H,J,K | 30 | 100/250 | 7.0 | 0.050 | 1700 |
| MWSD1005C8N0 ☐ TM81 | 8.0 | G,H,J,K | 30 | 100/250 | 7.0 | 0.050 | 1700 |
| MWSD1005C8N1 ☐ TM81 | 8.1 | G,H,J,K | 32 | 100/250 | 6.5 | 0.069 | 1500 |
| MWSD1005C8N2 ☐ TM81 | 8.2 | G,H,J,K | 32 | 100/250 | 6.5 | 0.069 | 1500 |
| MWSD1005C8N3 ☐ TM81 | 8.3 | G,H,J,K | 32 | 100/250 | 6.5 | 0.069 | 1500 |
| MWSD1005C8N4 ☐ TM81 | 8.4 | G,H,J,K | 32 | 100/250 | 6.5 | 0.069 | 1500 |
| MWSD1005C8N5 ☐ TM81 | 8.5 | G,H,J,K | 32 | 100/250 | 6.5 | 0.069 | 1500 |
| MWSD1005C8N6 ☐ TM81 | 8.6 | G,H,J,K | 31 | 100/250 | 6.5 | 0.070 | 1420 |
| MWSD1005C8N7 ☐ TM81 | 8.7 | G,H,J,K | 31 | 100/250 | 6.5 | 0.070 | 1420 |
| MWSD1005C8N8 ☐ TM81 | 8.8 | G,H,J,K | 31 | 100/250 | 6.5 | 0.070 | 1420 |
| MWSD1005C8N9 ☐ TM81 | 8.9 | G,H,J,K | 31 | 100/250 | 6.5 | 0.070 | 1420 |
| MWSD1005C9N0 ☐ TM81 | 9.0 | G,H,J,K | 31 | 100/250 | 6.5 | 0.070 | 1500 |
| MWSD1005C9N1 ☐ TM81 | 9.1 | G,H,J,K | 32 | 100/250 | 6.5 | 0.080 | 1400 |
| MWSD1005C9N2 ☐ TM81 | 9.2 | G,H,J,K | 32 | 100/250 | 6.0 | 0.081 | 1400 |
| MWSD1005C9N3 ☐ TM81 | 9.3 | G,H,J,K | 34 | 100/250 | 6.0 | 0.081 | 1400 |
| MWSD1005C9N4 ☐ TM81 | 9.4 | G,H,J,K | 33 | 100/250 | 6.0 | 0.081 | 1400 |
| MWSD1005C9N5 ☐ TM81 | 9.5 | G,H,J,K | 32 | 100/250 | 6.0 | 0.081 | 1400 |
| MWSD1005C9N6 ☐ TM81 | 9.6 | G,H,J,K | 33 | 100/250 | 6.0 | 0.081 | 1400 |
| MWSD1005C9N7 ☐ TM81 | 9.7 | G,H,J,K | 33 | 100/250 | 6.0 | 0.081 | 1400 |
| MWSD1005C9N8 ☐ TM81 | 9.8 | G,H,J,K | 34 | 100/250 | 6.0 | 0.081 | 1400 |
| MWSD1005C9N9 ☐ TM81 | 9.9 | G,H,J,K | 32 | 100/250 | 6.0 | 0.081 | 1400 |
| MWSD1005C10N ☐ TM81 | 10 | G,H,J,K | 31 | 100/250 | 6.0 | 0.081 | 1400 |
| MWSD1005C11N ☐ TM81 | 11 | G,H,J,K | 32 | 100/250 | 6.2 | 0.083 | 1400 |
| MWSD1005C12N ☐ TM81 | 12 | G,H,J,K | 30 | 100/250 | 5.2 | 0.093 | 1240 |
| MWSD1005C13N ☐ TM81 | 13 | G,H,J,K | 30 | 100/250 | 5.2 | 0.093 | 1240 |
| MWSD1005C14N ☐ TM81 | 14 | G,H,J,K | 31 | 100/250 | 5.2 | 0.111 | 1150 |
| MWSD1005C15N ☐ TM81 | 15 | G,H,J,K | 31 | 100/250 | 5.5 | 0.114 | 1150 |
| MWSD1005C16N ☐ TM81 | 16 | G,H,J,K | 31 | 100/250 | 5.0 | 0.126 | 1000 |
| MWSD1005C17N ☐ TM81 | 17 | G,H,J,K | 31 | 100/250 | 5.2 | 0.130 | 1000 |
| MWSD1005C18N ☐ TM81 | 18 | G,H,J,K | 30 | 100/250 | 5.5 | 0.156 | 1050 |
| MWSD1005C19N ☐ TM81 | 19 | G,H,J,K | 30 | 100/250 | 5.0 | 0.126 | 920 |
| MWSD1005C20N ☐ TM81 | 20 | G,H,J,K | 30 | 100/250 | 4.5 | 0.186 | 800 |
| MWSD1005C21N ☐ TM81 | 21 | G,H,J,K | 30 | 100/250 | 4.5 | 0.202 | 780 |
| MWSD1005C22N ☐ TM81 | 22 | G,H,J,K | 30 | 100/250 | 4.5 | 0.202 | 780 |
| MWSD1005C23N ☐ TM81 | 23 | G,H,J,K | 29 | 100/250 | 4.5 | 0.201 | 760 |
| MWSD1005C24N ☐ TM81 | 24 | G,H,J,K | 31 | 100/250 | 4.0 | 0.212 | 770 |

**SPECIFICATIONS** MWSD1005C -M81 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 | GHz | Ω | mA |
| Symbol | L | - | Q | Freq. | S.R.F | DCR | Ir |
| MWSD1005C25N ☐ TM81 | 25 | G,H,J,K | 31 | 100/250 | 4.1 | 0.221 | 750 |
| MWSD1005C26N ☐ TM81 | 26 | G,H,J,K | 29 | 100/250 | 4.1 | 0.282 | 720 |
| MWSD1005C27N ☐ TM81 | 27 | G,H,J,K | 30 | 100/250 | 4.0 | 0.288 | 680 |
| MWSD1005C30N ☐ TM81 | 30 | G,H,J,K | 30 | 100/250 | 3.8 | 0.309 | 660 |
| MWSD1005C33N ☐ TM81 | 33 | G,H,J,K | 30 | 100/250 | 3.6 | 0.336 | 620 |
| MWSD1005C36N ☐ TM81 | 36 | G,H,J,K | 30 | 100/250 | 3.5 | 0.431 | 540 |
| MWSD1005C39N ☐ TM81 | 39 | G,H,J,K | 28 | 100/250 | 3.4 | 0.456 | 530 |
| MWSD1005C43N ☐ TM81 | 43 | G,H,J,K | 30 | 100/250 | 3.4 | 0.516 | 515 |
| MWSD1005C47N ☐ TM81 | 47 | G,H,J,K | 25 | 100/250 | 3.2 | 0.648 | 440 |
| MWSD1005C51N ☐ TM81 | 51 | G,H,J,K | 25 | 100/250 | 2.9 | 0.696 | 415 |
| MWSD1005C53N ☐ TM81 | 53 | G,H,J,K | 25 | 100/200 | 2.9 | 0.696 | 415 |
| MWSD1005C56N ☐ TM81 | 56 | G,H,J,K | 25 | 100/200 | 2.9 | 0.996 | 340 |
| MWSD1005C68N ☐ TM81 | 68 | G,H,J,K | 25 | 100/250 | 2.5 | 1.128 | 320 |
| MWSD1005C75N ☐ TM81 | 75 | G,H,J,K | 25 | 100/200 | 2.4 | 1.224 | 320 |

MWSD1608C -M81 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 | GHz | Ω | mA |
| Symbol | L | - | Q | Freq. | S.R.F | DCR | Ir |
| MWSD1608C2N2 ☐ TM81 | 2.2 | C | 24 | 100/250 | 15.0 | 0.018 | 3200 |
| MWSD1608C2N4 ☐ TM81 | 2.4 | C | 18 | 100/250 | 15.0 | 0.026 | 2400 |
| MWSD1608C3N0 ☐ TM81 | 3.0 | C | 13 | 100/250 | 15.0 | 0.17 | 670 |
| MWSD1608C3N9 ☐ TM81 | 3.9 | C,G | 30 | 100/250 | 10.0 | 0.028 | 2200 |
| MWSD1608C4N1 ☐ TM81 | 4.1 | C,G | 30 | 100/250 | 10.0 | 0.028 | 2200 |
| MWSD1608C4N2 ☐ TM81 | 4.2 | C,G | 30 | 100/250 | 10.0 | 0.028 | 2200 |
| MWSD1608C4N3 ☐ TM81 | 4.3 | C,G | 35 | 100/250 | 11.6 | 0.036 | 2100 |
| MWSD1608C4N7 ☐ TM81 | 4.7 | C,G | 25 | 100/250 | 10.4 | 0.054 | 1500 |
| MWSD1608C4N9 ☐ TM81 | 4.9 | C,G | 23 | 100/250 | 7.3 | 0.081 | 1200 |
| MWSD1608C6N0 ☐ TM81 | 6.0 | C,G | 40 | 100/250 | 6.65 | 0.040 | 1900 |
| MWSD1608C6N5 ☐ TM81 | 6.5 | C,G | 40 | 100/250 | 6.65 | 0.040 | 1900 |
| MWSD1608C6N8 ☐ TM81 | 6.8 | C,G | 40 | 100/250 | 6.65 | 0.040 | 1900 |
| MWSD1608C7N2 ☐ TM81 | 7.2 | C,G | 38 | 100/250 | 6.65 | 0.040 | 1900 |
| MWSD1608C7N5 ☐ TM81 | 7.5 | C,G | 35 | 100/250 | 7.0 | 0.048 | 1500 |
| MWSD1608C8N2 ☐ TM81 | 8.2 | C,G | 38 | 100/250 | 4.75 | 0.052 | 1600 |
| MWSD1608C8N4 ☐ TM81 | 8.4 | C,G | 38 | 100/250 | 4.75 | 0.052 | 1600 |
| MWSD1608C8N7 ☐ TM81 | 8.7 | C,G | 38 | 100/250 | 4.75 | 0.052 | 1600 |
| MWSD1608C9N1 ☐ TM81 | 9.1 | C,G | 38 | 100/250 | 4.75 | 0.052 | 1600 |
| MWSD1608C9N5 ☐ TM81 | 9.5 | C,G | 38 | 100/250 | 4.75 | 0.052 | 1600 |
| MWSD1608C9N9 ☐ TM81 | 9.9 | C,G | 38 | 100/250 | 4.75 | 0.052 | 1600 |
| MWSD1608C10N ☐ TM81 | 10 | G,J | 38 | 100/250 | 4.75 | 0.052 | 1600 |
| MWSD1608C11N ☐ TM81 | 11 | G,J | 40 | 100/250 | 4.75 | 0.052 | 1600 |
| MWSD1608C12N ☐ TM81 | 12 | G,J | 37 | 100/250 | 5.0 | 0.064 | 1500 |
| MWSD1608C13N ☐ TM81 | 13 | G,J | 37 | 100/250 | 5.0 | 0.064 | 1500 |
| MWSD1608C15N ☐ TM81 | 15 | G,J | 38 | 100/250 | 4.6 | 0.075 | 1400 |
| MWSD1608C16N ☐ TM81 | 16 | G,J | 40 | 100/250 | 4.1 | 0.075 | 1400 |
| MWSD1608C17N ☐ TM81 | 17 | G,J | 40 | 100/250 | 4.6 | 0.075 | 1400 |

**SPECIFICATIONS** MWSD1608C -M81 TYPE

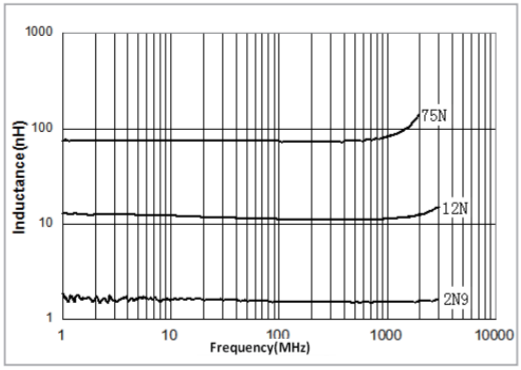
| Part Number | Inductance | 公差 Tolerance | Min. Quality Factor | L/Q Test Freq. | Min.Self-resonant Frequency | Max. DC Resistance | Max. Rated Current |
|---|---|---|---|---|---|---|---|
| Units | nH | - | - | MHz | GHz | Ω | mA |
| Symbol | L | - | Q | Freq. | S.R.F | DCR | Ir |
| MWSD1608C18N ☐ TM81 | 18 | G,J | 40 | 100/250 | 4.6 | 0.075 | 1400 |
| MWSD1608C19N ☐ TM81 | 19 | G,J | 40 | 100/250 | 3.9 | 0.075 | 1400 |
| MWSD1608C22N ☐ TM81 | 22 | G,J | 40 | 100/250 | 3.45 | 0.086 | 1300 |
| MWSD1608C23N ☐ TM81 | 23 | G,J | 40 | 100/250 | 3.45 | 0.086 | 1300 |
| MWSD1608C24N ☐ TM81 | 24 | G,J | 40 | 100/250 | 3.45 | 0.086 | 1300 |
| MWSD1608C25N ☐ TM81 | 25 | G,J | 40 | 100/250 | 3.6 | 0.098 | 1200 |
| MWSD1608C27N ☐ TM81 | 27 | G,J | 40 | 100/250 | 3.6 | 0.098 | 1200 |
| MWSD1608C28N ☐ TM81 | 28 | G,J | 40 | 100/250 | 3.6 | 0.098 | 1200 |
| MWSD1608C30N ☐ TM81 | 30 | G,J | 40 | 100/250 | 2.88 | 0.12 | 1100 |
| MWSD1608C31N ☐ TM81 | 31 | G,J | 40 | 100/250 | 3.15 | 0.11 | 1100 |
| MWSD1608C34N ☐ TM81 | 34 | G,J | 40 | 100/250 | 3.0 | 0.15 | 1050 |
| MWSD1608C36N ☐ TM81 | 36 | G,J | 37 | 100/250 | 3.0 | 0.20 | 910 |
| MWSD1608C37N ☐ TM81 | 37 | G,J | 37 | 100/250 | 3.0 | 0.20 | 910 |
| MWSD1608C39N ☐ TM81 | 39 | G,J | 40 | 100/250 | 3.28 | 0.16 | 1000 |
| MWSD1608C41N ☐ TM81 | 41 | G,J | 40 | 100/250 | 3.1 | 0.16 | 1000 |
| MWSD1608C43N ☐ TM81 | 43 | G,J | 40 | 100/250 | 2.78 | 0.21 | 840 |
| MWSD1608C44N ☐ TM81 | 44 | G,J | 40 | 100/250 | 2.78 | 0.21 | 840 |
| MWSD1608C47N ☐ TM81 | 47 | G,J | 32 | 100/200 | 2.7 | 0.23 | 830 |
| MWSD1608C48N ☐ TM81 | 48 | G,J | 32 | 100/200 | 2.7 | 0.23 | 830 |
| MWSD1608C51N ☐ TM81 | 51 | G,J | 32 | 100/200 | 2.7 | 0.23 | 830 |
| MWSD1608C52N ☐ TM81 | 52 | G,J | 35 | 100/200 | 2.75 | 0.27 | 750 |
| MWSD1608C56N ☐ TM81 | 56 | G,J | 38 | 100/200 | 2.6 | 0.26 | 770 |
| MWSD1608C58N ☐ TM81 | 58 | G,J | 35 | 100/200 | 2.4 | 0.30 | 700 |
| MWSD1608C68N ☐ TM81 | 68 | G,J | 37 | 100/200 | 2.38 | 0.38 | 630 |
| MWSD1608C69N ☐ TM81 | 69 | G,J | 37 | 100/200 | 2.38 | 0.38 | 630 |
| MWSD1608C72N ☐ TM81 | 72 | G,J | 34 | 100/150 | 2.1 | 0.47 | 560 |
| MWSD1608C73N ☐ TM81 | 73 | G,J | 28 | 100/150 | 2.1 | 0.41 | 590 |
| MWSD1608C75N ☐ TM81 | 75 | G,J | 28 | 100/150 | 2.05 | 0.41 | 590 |
| MWSD1608C78N ☐ TM81 | 78 | G,J | 28 | 100/150 | 2.28 | 0.41 | 590 |
| MWSD1608C82N ☐ TM81 | 82 | G,J | 34 | 100/150 | 2.23 | 0.50 | 550 |
| MWSD1608C83N ☐ TM81 | 83 | G,J | 34 | 100/150 | 2.11 | 0.50 | 550 |
| MWSD1608C91N ☐ TM81 | 91 | G,J | 33 | 100/150 | 1.9 | 0.54 | 520 |
| MWSD1608C94N ☐ TM81 | 94 | G,J | 34 | 100/150 | 1.75 | 0.63 | 490 |
| MWSD1608CR10 ☐ TM81 | 100 | G,J | 34 | 100/150 | 1.75 | 0.63 | 490 |
| MWSD1608CR11 ☐ TM81 | 110 | G,J | 32 | 100/150 | 1.73 | 0.70 | 450 |
| MWSD1608CR12 ☐ TM81 | 120 | G,J | 32 | 100/150 | 1.65 | 0.72 | 450 |
| MWSD1608CR15 ☐ TM81 | 150 | G,J | 28 | 100/150 | 1.45 | 0.87 | 420 |
| MWSD1608CR18 ☐ TM81 | 180 | G,J | 25 | 100/100 | 1.38 | 1.65 | 310 |
| MWSD1608CR20 ☐ TM81 | 200 | G,J | 25 | 100/100 | 1.35 | 1.74 | 290 |
| MWSD1608CR21 ☐ TM81 | 210 | G,J | 27 | 100/100 | 1.33 | 1.98 | 280 |
| MWSD1608CR22 ☐ TM81 | 220 | G,J | 25 | 100/100 | 1.33 | 2.08 | 280 |
| MWSD1608CR25 ☐ TM81 | 250 | G,J | 24 | 100/100 | 1.3 | 2.28 | 250 |
| MWSD1608CR27 ☐ TM81 | 270 | G,J | 24 | 100/100 | 1.2 | 2.42 | 260 |
| MWSD1608CR30 ☐ TM81 | 300 | G,J | 25 | 100/100 | 1.05 | 3.12 | 220 |
| MWSD1608CR33 ☐ TM81 | 330 | G,J | 25 | 100/100 | 1.0 | 3.84 | 190 |
| MWSD1608CR36 ☐ TM81 | 360 | G,J | 25 | 100/100 | 0.9 | 3.98 | 190 |
| MWSD1608CR39 ☐ TM81 | 390 | G,J | 25 | 100/100 | 1.0 | 4.23 | 190 |

※: Please refer to “Measurement Notice for RF Inductors”.

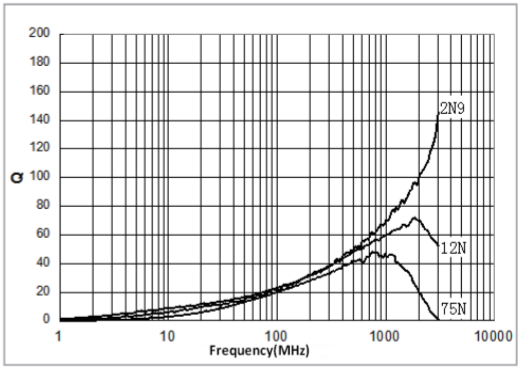
**TYPICAL ELECTRICAL CHARACTERISTICS**

MWSD1005C-M81 TYPE

Inductance vs. Frequency Characteristics

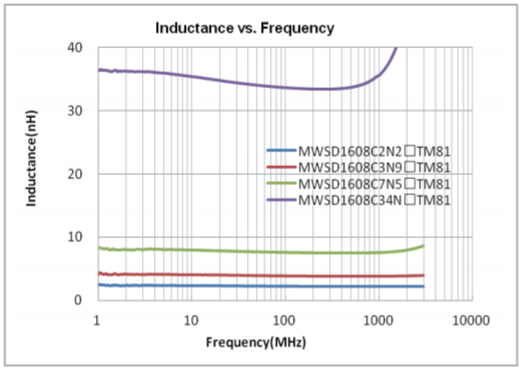



Q vs. Frequency Characteristics

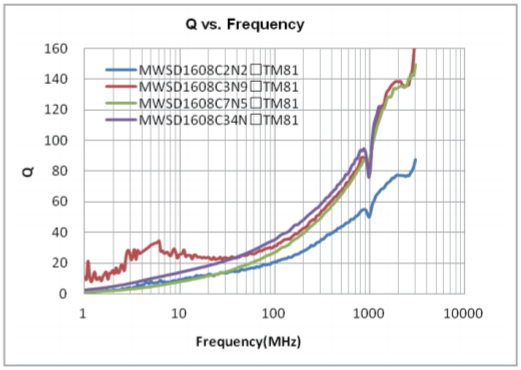



MWSD1608C -M81 TYPE

Inductance vs. Frequency Characteristics




Q vs. Frequency Characteristics



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