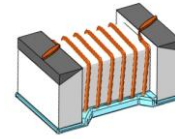


# Wire Wound Chip Ceramic Inductor - MWSD-C-M Series

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

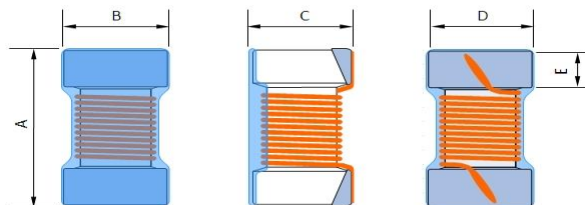
- High frequency circuit in telecommunication and other equipments
- Mobile phones such as GSM, CDMA, TD-LTE, FDD-LTE, PDC, 5G NR, etc.
- Bluetooth, W-LAN, Broadband network

## PRODUCT IDENTIFICATION

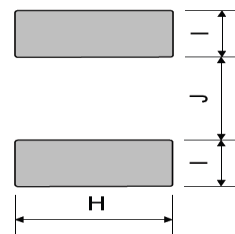
| <u>MWSD</u><br>①                                                                                                                                                                                                            | <u>1005</u><br>②         | <u>C</u><br>③      | <u>10N</u><br>④ | <u>S</u><br>⑤                                                                                                  | <u>T</u><br>⑥            | <u>M01</u><br>⑦                                                                                                |       |                     |               |             |       |                                                                                                                                                                                                                                                                                                             |  |                      |               |   |        |         |        |   |        |   |        |   |     |   |     |   |     |                                                                                                                                              |  |         |  |   |              |   |             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------|-----------------|----------------------------------------------------------------------------------------------------------------|--------------------------|----------------------------------------------------------------------------------------------------------------|-------|---------------------|---------------|-------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------|---------------|---|--------|---------|--------|---|--------|---|--------|---|-----|---|-----|---|-----|----------------------------------------------------------------------------------------------------------------------------------------------|--|---------|--|---|--------------|---|-------------|
| ①<br><table><tr><th colspan="2">Type</th></tr><tr><td>MWSD</td><td>Wire Wound Chip Inductor</td></tr></table>                                                                                                               |                          | Type               |                 | MWSD                                                                                                           | Wire Wound Chip Inductor | ②<br><table><tr><th colspan="2">External Dimensions</th></tr><tr><td colspan="2">1005 [0402]</td></tr></table> |       | External Dimensions |               | 1005 [0402] |       | ③<br><table><tr><th colspan="2">Material Code</th></tr><tr><td>C</td><td>Ceramic</td></tr></table>                                                                                                                                                                                                          |  |                      | Material Code |   | C      | Ceramic |        |   |        |   |        |   |     |   |     |   |     |                                                                                                                                              |  |         |  |   |              |   |             |
| Type                                                                                                                                                                                                                        |                          |                    |                 |                                                                                                                |                          |                                                                                                                |       |                     |               |             |       |                                                                                                                                                                                                                                                                                                             |  |                      |               |   |        |         |        |   |        |   |        |   |     |   |     |   |     |                                                                                                                                              |  |         |  |   |              |   |             |
| MWSD                                                                                                                                                                                                                        | Wire Wound Chip Inductor |                    |                 |                                                                                                                |                          |                                                                                                                |       |                     |               |             |       |                                                                                                                                                                                                                                                                                                             |  |                      |               |   |        |         |        |   |        |   |        |   |     |   |     |   |     |                                                                                                                                              |  |         |  |   |              |   |             |
| External Dimensions                                                                                                                                                                                                         |                          |                    |                 |                                                                                                                |                          |                                                                                                                |       |                     |               |             |       |                                                                                                                                                                                                                                                                                                             |  |                      |               |   |        |         |        |   |        |   |        |   |     |   |     |   |     |                                                                                                                                              |  |         |  |   |              |   |             |
| 1005 [0402]                                                                                                                                                                                                                 |                          |                    |                 |                                                                                                                |                          |                                                                                                                |       |                     |               |             |       |                                                                                                                                                                                                                                                                                                             |  |                      |               |   |        |         |        |   |        |   |        |   |     |   |     |   |     |                                                                                                                                              |  |         |  |   |              |   |             |
| Material Code                                                                                                                                                                                                               |                          |                    |                 |                                                                                                                |                          |                                                                                                                |       |                     |               |             |       |                                                                                                                                                                                                                                                                                                             |  |                      |               |   |        |         |        |   |        |   |        |   |     |   |     |   |     |                                                                                                                                              |  |         |  |   |              |   |             |
| C                                                                                                                                                                                                                           | Ceramic                  |                    |                 |                                                                                                                |                          |                                                                                                                |       |                     |               |             |       |                                                                                                                                                                                                                                                                                                             |  |                      |               |   |        |         |        |   |        |   |        |   |     |   |     |   |     |                                                                                                                                              |  |         |  |   |              |   |             |
| ④<br><table><tr><th colspan="2">Nominal Inductance</th></tr><tr><th>Example</th><th>Nominal Value</th></tr><tr><td>4N7</td><td>4.7nH</td></tr><tr><td>10N</td><td>10nH</td></tr><tr><td>R10</td><td>100nH</td></tr></table> |                          | Nominal Inductance |                 | Example                                                                                                        | Nominal Value            | 4N7                                                                                                            | 4.7nH | 10N                 | 10nH          | R10         | 100nH | ⑤<br><table><tr><th colspan="2">Inductance Tolerance</th></tr><tr><td>B</td><td>±0.1nH</td></tr><tr><td>C</td><td>±0.2nH</td></tr><tr><td>S</td><td>±0.3nH</td></tr><tr><td>D</td><td>±0.5nH</td></tr><tr><td>G</td><td>±2%</td></tr><tr><td>H</td><td>±3%</td></tr><tr><td>J</td><td>±5%</td></tr></table> |  | Inductance Tolerance |               | B | ±0.1nH | C       | ±0.2nH | S | ±0.3nH | D | ±0.5nH | G | ±2% | H | ±3% | J | ±5% | ⑥<br><table><tr><th colspan="2">Packing</th></tr><tr><td>B</td><td>Bulk Package</td></tr><tr><td>T</td><td>Tape &amp; Reel</td></tr></table> |  | Packing |  | B | Bulk Package | T | Tape & Reel |
| Nominal Inductance                                                                                                                                                                                                          |                          |                    |                 |                                                                                                                |                          |                                                                                                                |       |                     |               |             |       |                                                                                                                                                                                                                                                                                                             |  |                      |               |   |        |         |        |   |        |   |        |   |     |   |     |   |     |                                                                                                                                              |  |         |  |   |              |   |             |
| Example                                                                                                                                                                                                                     | Nominal Value            |                    |                 |                                                                                                                |                          |                                                                                                                |       |                     |               |             |       |                                                                                                                                                                                                                                                                                                             |  |                      |               |   |        |         |        |   |        |   |        |   |     |   |     |   |     |                                                                                                                                              |  |         |  |   |              |   |             |
| 4N7                                                                                                                                                                                                                         | 4.7nH                    |                    |                 |                                                                                                                |                          |                                                                                                                |       |                     |               |             |       |                                                                                                                                                                                                                                                                                                             |  |                      |               |   |        |         |        |   |        |   |        |   |     |   |     |   |     |                                                                                                                                              |  |         |  |   |              |   |             |
| 10N                                                                                                                                                                                                                         | 10nH                     |                    |                 |                                                                                                                |                          |                                                                                                                |       |                     |               |             |       |                                                                                                                                                                                                                                                                                                             |  |                      |               |   |        |         |        |   |        |   |        |   |     |   |     |   |     |                                                                                                                                              |  |         |  |   |              |   |             |
| R10                                                                                                                                                                                                                         | 100nH                    |                    |                 |                                                                                                                |                          |                                                                                                                |       |                     |               |             |       |                                                                                                                                                                                                                                                                                                             |  |                      |               |   |        |         |        |   |        |   |        |   |     |   |     |   |     |                                                                                                                                              |  |         |  |   |              |   |             |
| Inductance Tolerance                                                                                                                                                                                                        |                          |                    |                 |                                                                                                                |                          |                                                                                                                |       |                     |               |             |       |                                                                                                                                                                                                                                                                                                             |  |                      |               |   |        |         |        |   |        |   |        |   |     |   |     |   |     |                                                                                                                                              |  |         |  |   |              |   |             |
| B                                                                                                                                                                                                                           | ±0.1nH                   |                    |                 |                                                                                                                |                          |                                                                                                                |       |                     |               |             |       |                                                                                                                                                                                                                                                                                                             |  |                      |               |   |        |         |        |   |        |   |        |   |     |   |     |   |     |                                                                                                                                              |  |         |  |   |              |   |             |
| C                                                                                                                                                                                                                           | ±0.2nH                   |                    |                 |                                                                                                                |                          |                                                                                                                |       |                     |               |             |       |                                                                                                                                                                                                                                                                                                             |  |                      |               |   |        |         |        |   |        |   |        |   |     |   |     |   |     |                                                                                                                                              |  |         |  |   |              |   |             |
| S                                                                                                                                                                                                                           | ±0.3nH                   |                    |                 |                                                                                                                |                          |                                                                                                                |       |                     |               |             |       |                                                                                                                                                                                                                                                                                                             |  |                      |               |   |        |         |        |   |        |   |        |   |     |   |     |   |     |                                                                                                                                              |  |         |  |   |              |   |             |
| D                                                                                                                                                                                                                           | ±0.5nH                   |                    |                 |                                                                                                                |                          |                                                                                                                |       |                     |               |             |       |                                                                                                                                                                                                                                                                                                             |  |                      |               |   |        |         |        |   |        |   |        |   |     |   |     |   |     |                                                                                                                                              |  |         |  |   |              |   |             |
| G                                                                                                                                                                                                                           | ±2%                      |                    |                 |                                                                                                                |                          |                                                                                                                |       |                     |               |             |       |                                                                                                                                                                                                                                                                                                             |  |                      |               |   |        |         |        |   |        |   |        |   |     |   |     |   |     |                                                                                                                                              |  |         |  |   |              |   |             |
| H                                                                                                                                                                                                                           | ±3%                      |                    |                 |                                                                                                                |                          |                                                                                                                |       |                     |               |             |       |                                                                                                                                                                                                                                                                                                             |  |                      |               |   |        |         |        |   |        |   |        |   |     |   |     |   |     |                                                                                                                                              |  |         |  |   |              |   |             |
| J                                                                                                                                                                                                                           | ±5%                      |                    |                 |                                                                                                                |                          |                                                                                                                |       |                     |               |             |       |                                                                                                                                                                                                                                                                                                             |  |                      |               |   |        |         |        |   |        |   |        |   |     |   |     |   |     |                                                                                                                                              |  |         |  |   |              |   |             |
| Packing                                                                                                                                                                                                                     |                          |                    |                 |                                                                                                                |                          |                                                                                                                |       |                     |               |             |       |                                                                                                                                                                                                                                                                                                             |  |                      |               |   |        |         |        |   |        |   |        |   |     |   |     |   |     |                                                                                                                                              |  |         |  |   |              |   |             |
| B                                                                                                                                                                                                                           | Bulk Package             |                    |                 |                                                                                                                |                          |                                                                                                                |       |                     |               |             |       |                                                                                                                                                                                                                                                                                                             |  |                      |               |   |        |         |        |   |        |   |        |   |     |   |     |   |     |                                                                                                                                              |  |         |  |   |              |   |             |
| T                                                                                                                                                                                                                           | Tape & Reel              |                    |                 |                                                                                                                |                          |                                                                                                                |       |                     |               |             |       |                                                                                                                                                                                                                                                                                                             |  |                      |               |   |        |         |        |   |        |   |        |   |     |   |     |   |     |                                                                                                                                              |  |         |  |   |              |   |             |
|                                                                                                                                                                                                                             |                          |                    |                 | ⑦<br><table><tr><th colspan="2">Internal Code</th></tr><tr><td>M01/M11</td><td>Internal Code</td></tr></table> |                          | Internal Code                                                                                                  |       | M01/M11             | Internal Code |             |       |                                                                                                                                                                                                                                                                                                             |  |                      |               |   |        |         |        |   |        |   |        |   |     |   |     |   |     |                                                                                                                                              |  |         |  |   |              |   |             |
| 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   |

# 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                | I <sub>r</sub>     | 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                         |

## 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                | I <sub>r</sub>     | 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

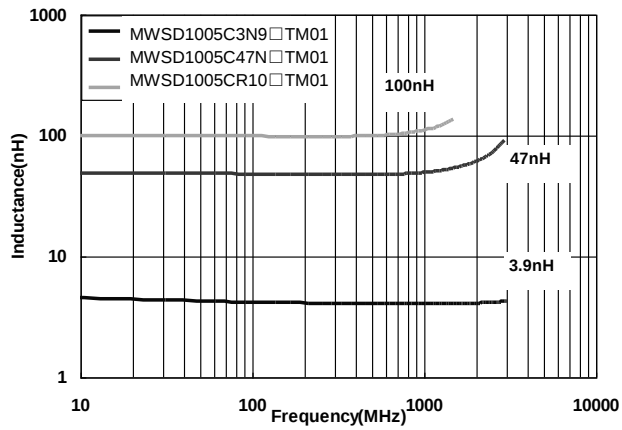
| Part Number       | Inductance | Tolerance | Min. Quality Factor | L/Q Test Freq. | Max. DC Resistance | Max. Rated Current | Min. Self-resonant Frequency |
|-------------------|------------|-----------|---------------------|----------------|--------------------|--------------------|------------------------------|
| Units             | nH         | -         | -                   | MHz            | Ω                  | mA                 | MHz                          |
| Symbol            | L          | -         | Q                   | Freq.          | DCR                | I <sub>r</sub>     | 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".

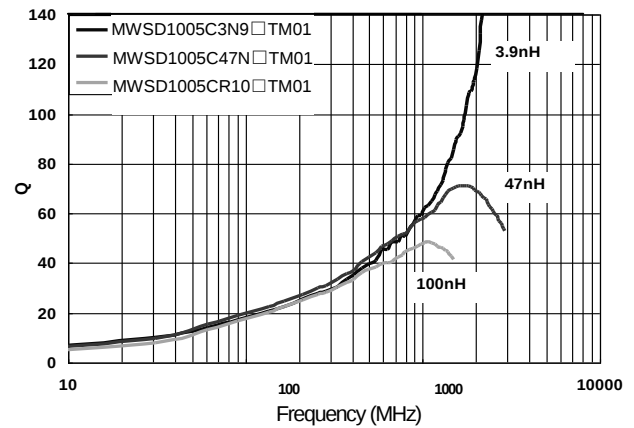
## TYPICAL ELECTRICAL CHARACTERISTICS

MWSD1005C-M TYPE

Inductance vs. Frequency Characteristics



Q vs. Frequency Characteristics



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