



# Inductors for High Frequency Circuits

Multilayer Ceramic

**MLG Series**

## MLG0603S<sub>Type</sub>

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**MLG0603S**

**0603 [0201 inch]\***

\* Dimensions Code JIS[EIA]

## REMINDERS FOR USING THESE PRODUCTS

Before using these products, be sure to request the delivery specifications.

### SAFETY REMINDERS

Please pay sufficient attention to the warnings for safe designing when using these products.

#### REMINDERS

- The storage period is less than 12 months. Be sure to follow the storage conditions (Temperature: 5 to 40°C, Humidity: 10 to 75% RH or less).  
If the storage period elapses, the soldering of the terminal electrodes may deteriorate.
- Do not use or store in locations where there are conditions such as gas corrosion (salt, acid, alkali, etc.).
- Before soldering, be sure to preheat components.  
The preheating temperature should be set so that the temperature difference between the solder temperature and chip temperature does not exceed 150°C.
- Soldering corrections after mounting should be within the range of the conditions determined in the specifications.  
If overheated, a short circuit, performance deterioration, or lifespan shortening may occur.
- When embedding a printed circuit board where a chip is mounted to a set, be sure that residual stress is not given to the chip due to the overall distortion of the printed circuit board and partial distortion such as at screw tightening portions.
- Self heating (temperature increase) occurs when the power is turned ON, so the tolerance should be sufficient for the set thermal design.
- Carefully lay out the coil for the circuit board design of the non-magnetic shield type.  
A malfunction may occur due to magnetic interference.
- Use a wrist band to discharge static electricity in your body through the grounding wire.
- Do not expose the products to magnets or magnetic fields.
- Do not use for a purpose outside of the contents regulated in the delivery specifications.
- The products listed on this catalog are intended for use in general electronic equipment (AV equipment, telecommunications equipment, home appliances, amusement equipment, computer equipment, personal equipment, office equipment, measurement equipment, industrial robots) under a normal operation and use condition.  
The products are not designed or warranted to meet the requirements of the applications listed below, whose performance and/or quality require a more stringent level of safety or reliability, or whose failure, malfunction or trouble could cause serious damage to society, person or property.  
If you intend to use the products in the applications listed below or if you have special requirements exceeding the range or conditions set forth in the each catalog, please contact us.

- (1) Aerospace/Aviation equipment
- (2) Transportation equipment (cars, electric trains, ships, etc.)
- (3) Medical equipment
- (4) Power-generation control equipment
- (5) Atomic energy-related equipment
- (6) Seabed equipment
- (7) Transportation control equipment

- (8) Public information-processing equipment
- (9) Military equipment
- (10) Electric heating apparatus, burning equipment
- (11) Disaster prevention/crime prevention equipment
- (12) Safety equipment
- (13) Other applications that are not considered general-purpose applications

When designing your equipment even for general-purpose applications, you are kindly requested to take into consideration securing protection circuit/device or providing backup circuits in your equipment.

# Inductors for High Frequency Circuits

## Multilayer Ceramic

Product compatible with RoHS directive  
Halogen-free  
Compatible with lead-free solders

## Overview of MLG0603S Type

### FEATURES

- Advanced monolithic structure is formed using a multilayering and sintering process with ceramic and conductive materials for High-frequency.

### APPLICATION

Smart phones, tablet terminals, high frequency modules (PAs, VCOs, FEMs , etc.), Bluetooth, W-LAN, UWB, tuners and other high frequency circuits for the mobile communication industry

### PART NUMBER CONSTRUCTION

| MLG         | 0603                  |             | S                     | 0N3             |     | S                    |        | T               |        | 000           |
|-------------|-----------------------|-------------|-----------------------|-----------------|-----|----------------------|--------|-----------------|--------|---------------|
| Series name | LxWxH Dimensions (mm) |             | Product internal code | Inductance (nH) |     | Inductance tolerance |        | Packaging style |        | Internal code |
|             | 0603                  | 0.6x0.3x0.3 | S                     | 1N1             | 1.1 | B                    | ±0.1nH | T               | Taping | 000           |
|             |                       |             |                       | 11N             | 11  | C                    | ±0.2nH |                 |        |               |
|             |                       |             |                       | R10             | 100 | S                    | ±0.3nH |                 |        |               |
|             |                       |             |                       |                 |     | H                    | ±3%    |                 |        |               |
|             |                       |             |                       |                 |     | J                    | ±5%    |                 |        |               |

### OPERATING TEMPERATURE RANGE, PACKAGE QUANTITY, PRODUCT WEIGHT

| Type     | Temperature range             |                              | Package quantity<br>(pieces/reel) | Individual weight<br>(mg) |
|----------|-------------------------------|------------------------------|-----------------------------------|---------------------------|
|          | Operating temperature<br>(°C) | Storage temperature*<br>(°C) |                                   |                           |
| MLG0603S | -55 to +125                   | -55 to +125                  | 15000                             | 0.2                       |

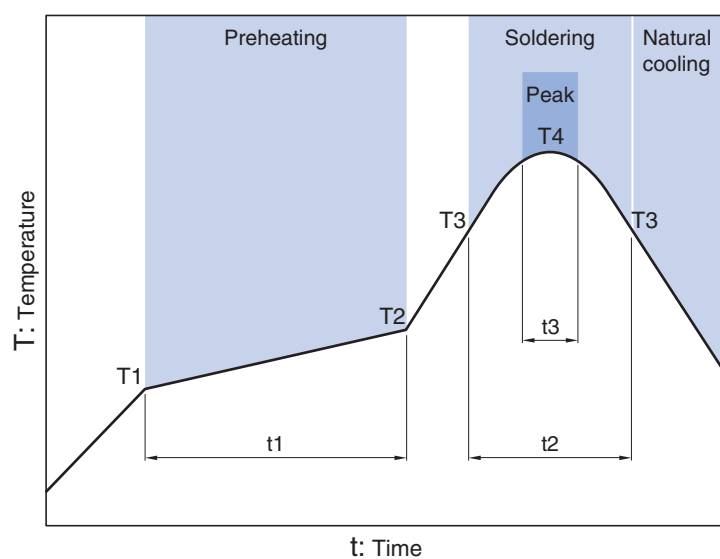
\* The Storage temperature range is for after the circuit board is mounted.

- RoHS Directive Compliant Product: See the following for more details related to RoHS Directive compliant products. <http://product.tdk.com/en/environment/rohs/>
- Halogen-free: Indicates that Cl content is less than 900ppm, Br content is less than 900ppm, and that the total Cl and Br content is less than 1500ppm.

 Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use. Please note that the contents may change without any prior notice due to reasons such as upgrading.

# MLG0603S Type

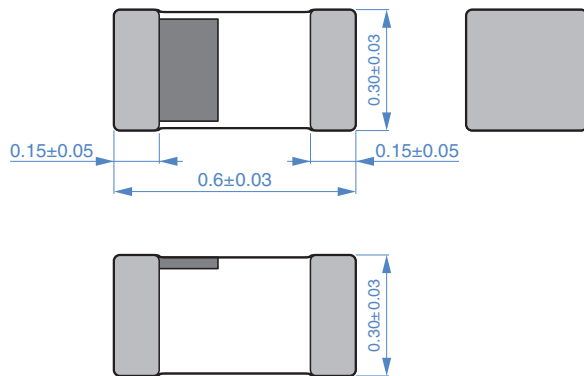
## RECOMMENDED REFLOW PROFILE



| Preheating |       |            | Soldering |           | Peak         |          |
|------------|-------|------------|-----------|-----------|--------------|----------|
| Temp.      | Time  |            | Temp.     | Time      | Temp.        | Time     |
| T1         | T2    | t1         | T3        | t2        | T4           | t3       |
| 150°C      | 180°C | 60 to 120s | 230°C     | 30 to 60s | 250 to 260°C | 10s max. |

# MLG0603S Type

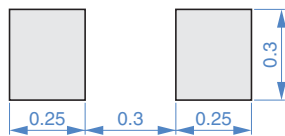
## ■ SHAPE & DIMENSIONS



Dimensions in mm



## ■ RECOMMENDED LAND PATTERN



Dimensions in mm

# MLG0603S Type

## ELECTRICAL CHARACTERISTICS

### CHARACTERISTICS SPECIFICATION TABLE

| L<br>(nH) | Tolerance    | Q<br>min. | L, Q measuring<br>frequency<br>(MHz) | Self-resonant<br>frequency |           | DC resistance    |                  | Rated current<br>(mA)max. | Part No.*        |
|-----------|--------------|-----------|--------------------------------------|----------------------------|-----------|------------------|------------------|---------------------------|------------------|
|           |              |           |                                      | (GHz)min.                  | (GHz)typ. | ( $\Omega$ )max. | ( $\Omega$ )typ. |                           |                  |
| 0.3       | $\pm 0.1$ nH | —         | 100                                  | 10.0                       | 20up      | 0.10             | 0.02             | 600                       | MLG0603S0N3BT000 |
| 0.3       | $\pm 0.2$ nH | —         | 100                                  | 10.0                       | 20up      | 0.10             | 0.02             | 600                       | MLG0603S0N3CT000 |
| 0.4       | $\pm 0.1$ nH | —         | 100                                  | 10.0                       | 20up      | 0.10             | 0.02             | 600                       | MLG0603S0N4BT000 |
| 0.4       | $\pm 0.2$ nH | —         | 100                                  | 10.0                       | 20up      | 0.10             | 0.02             | 600                       | MLG0603S0N4CT000 |
| 0.5       | $\pm 0.1$ nH | —         | 100                                  | 10.0                       | 20up      | 0.10             | 0.02             | 600                       | MLG0603S0N5BT000 |
| 0.5       | $\pm 0.2$ nH | —         | 100                                  | 10.0                       | 20up      | 0.10             | 0.02             | 600                       | MLG0603S0N5CT000 |
| 0.6       | $\pm 0.1$ nH | —         | 100                                  | 10.0                       | 20up      | 0.10             | 0.02             | 600                       | MLG0603S0N6BT000 |
| 0.6       | $\pm 0.2$ nH | —         | 100                                  | 10.0                       | 20up      | 0.10             | 0.02             | 600                       | MLG0603S0N6CT000 |
| 0.7       | $\pm 0.1$ nH | —         | 100                                  | 10.0                       | 16.3      | 0.10             | 0.02             | 600                       | MLG0603S0N7BT000 |
| 0.7       | $\pm 0.2$ nH | —         | 100                                  | 10.0                       | 16.3      | 0.10             | 0.02             | 600                       | MLG0603S0N7CT000 |
| 0.8       | $\pm 0.1$ nH | —         | 100                                  | 10.0                       | 16.1      | 0.10             | 0.03             | 600                       | MLG0603S0N8BT000 |
| 0.8       | $\pm 0.2$ nH | —         | 100                                  | 10.0                       | 16.1      | 0.10             | 0.03             | 600                       | MLG0603S0N8CT000 |
| 0.9       | $\pm 0.1$ nH | —         | 100                                  | 10.0                       | 13.8      | 0.10             | 0.03             | 600                       | MLG0603S0N9BT000 |
| 0.9       | $\pm 0.2$ nH | —         | 100                                  | 10.0                       | 13.8      | 0.10             | 0.03             | 600                       | MLG0603S0N9CT000 |
| 1.0       | $\pm 0.1$ nH | 4         | 100                                  | 10.0                       | 14.4      | 0.10             | 0.04             | 600                       | MLG0603S1N0BT000 |
| 1.0       | $\pm 0.2$ nH | 4         | 100                                  | 10.0                       | 14.4      | 0.10             | 0.04             | 600                       | MLG0603S1N0CT000 |
| 1.0       | $\pm 0.3$ nH | 4         | 100                                  | 10.0                       | 14.4      | 0.10             | 0.04             | 600                       | MLG0603S1N0ST000 |
| 1.1       | $\pm 0.1$ nH | 4         | 100                                  | 10.0                       | 13.6      | 0.15             | 0.04             | 550                       | MLG0603S1N1BT000 |
| 1.1       | $\pm 0.2$ nH | 4         | 100                                  | 10.0                       | 13.6      | 0.15             | 0.04             | 550                       | MLG0603S1N1CT000 |
| 1.1       | $\pm 0.3$ nH | 4         | 100                                  | 10.0                       | 13.6      | 0.15             | 0.04             | 550                       | MLG0603S1N1ST000 |
| 1.2       | $\pm 0.1$ nH | 4         | 100                                  | 10.0                       | 12.3      | 0.15             | 0.06             | 550                       | MLG0603S1N2BT000 |
| 1.2       | $\pm 0.2$ nH | 4         | 100                                  | 10.0                       | 12.3      | 0.15             | 0.06             | 550                       | MLG0603S1N2CT000 |
| 1.2       | $\pm 0.3$ nH | 4         | 100                                  | 10.0                       | 12.3      | 0.15             | 0.06             | 550                       | MLG0603S1N2ST000 |
| 1.3       | $\pm 0.1$ nH | 4         | 100                                  | 9.0                        | 11.4      | 0.15             | 0.07             | 550                       | MLG0603S1N3BT000 |
| 1.3       | $\pm 0.2$ nH | 4         | 100                                  | 9.0                        | 11.4      | 0.15             | 0.07             | 550                       | MLG0603S1N3CT000 |
| 1.3       | $\pm 0.3$ nH | 4         | 100                                  | 9.0                        | 11.4      | 0.15             | 0.07             | 550                       | MLG0603S1N3ST000 |
| 1.5       | $\pm 0.1$ nH | 4         | 100                                  | 9.0                        | 10.4      | 0.15             | 0.07             | 550                       | MLG0603S1N5BT000 |
| 1.5       | $\pm 0.2$ nH | 4         | 100                                  | 9.0                        | 10.4      | 0.15             | 0.07             | 550                       | MLG0603S1N5CT000 |
| 1.5       | $\pm 0.3$ nH | 4         | 100                                  | 9.00                       | 10.4      | 0.15             | 0.07             | 550                       | MLG0603S1N5ST000 |
| 1.6       | $\pm 0.1$ nH | 4         | 100                                  | 9.0                        | 11.5      | 0.20             | 0.09             | 500                       | MLG0603S1N6BT000 |
| 1.6       | $\pm 0.2$ nH | 4         | 100                                  | 9.0                        | 11.5      | 0.20             | 0.09             | 500                       | MLG0603S1N6CT000 |
| 1.6       | $\pm 0.3$ nH | 4         | 100                                  | 9.00                       | 11.5      | 0.20             | 0.09             | 500                       | MLG0603S1N6ST000 |
| 1.8       | $\pm 0.1$ nH | 4         | 100                                  | 8.5                        | 10.0      | 0.20             | 0.12             | 500                       | MLG0603S1N8BT000 |
| 1.8       | $\pm 0.2$ nH | 4         | 100                                  | 8.5                        | 10.0      | 0.20             | 0.12             | 500                       | MLG0603S1N8CT000 |
| 1.8       | $\pm 0.3$ nH | 4         | 100                                  | 8.50                       | 10.0      | 0.20             | 0.12             | 500                       | MLG0603S1N8ST000 |
| 2.0       | $\pm 0.1$ nH | 4         | 100                                  | 8.2                        | 9.80      | 0.25             | 0.14             | 400                       | MLG0603S2N0BT000 |
| 2.0       | $\pm 0.2$ nH | 4         | 100                                  | 8.2                        | 9.80      | 0.25             | 0.14             | 400                       | MLG0603S2N0CT000 |
| 2.0       | $\pm 0.3$ nH | 4         | 100                                  | 8.20                       | 9.80      | 0.25             | 0.14             | 400                       | MLG0603S2N0ST000 |
| 2.2       | $\pm 0.1$ nH | 4         | 100                                  | 8.0                        | 8.90      | 0.25             | 0.14             | 400                       | MLG0603S2N2BT000 |
| 2.2       | $\pm 0.2$ nH | 4         | 100                                  | 8.0                        | 8.90      | 0.25             | 0.14             | 400                       | MLG0603S2N2CT000 |
| 2.2       | $\pm 0.3$ nH | 4         | 100                                  | 8.00                       | 8.90      | 0.25             | 0.14             | 400                       | MLG0603S2N2ST000 |
| 2.4       | $\pm 0.1$ nH | 4         | 100                                  | 8.0                        | 9.20      | 0.25             | 0.15             | 300                       | MLG0603S2N4BT000 |
| 2.4       | $\pm 0.2$ nH | 4         | 100                                  | 8.0                        | 9.20      | 0.25             | 0.15             | 300                       | MLG0603S2N4CT000 |
| 2.4       | $\pm 0.3$ nH | 4         | 100                                  | 8.00                       | 9.20      | 0.25             | 0.15             | 300                       | MLG0603S2N4ST000 |
| 2.7       | $\pm 0.1$ nH | 4         | 100                                  | 6.5                        | 8.10      | 0.25             | 0.15             | 300                       | MLG0603S2N7BT000 |
| 2.7       | $\pm 0.2$ nH | 4         | 100                                  | 6.5                        | 8.10      | 0.25             | 0.15             | 300                       | MLG0603S2N7CT000 |
| 2.7       | $\pm 0.3$ nH | 4         | 100                                  | 6.50                       | 8.10      | 0.25             | 0.15             | 300                       | MLG0603S2N7ST000 |

\* Please contact us for  $\pm 2\%$  inductance tolerance (code G) products.

#### Measurement equipment

| Measurement item        | Product No.  | Manufacturer         |
|-------------------------|--------------|----------------------|
| L, Q                    | 4291B+16197A | Agilent Technologies |
| Self-resonant frequency | 8720C        | Agilent Technologies |
| DC resistance           | Type-7561    | Yokogawa             |

\* Equivalent measurement equipment may be used.

# MLG0603S Type

## ELECTRICAL CHARACTERISTICS

### CHARACTERISTICS SPECIFICATION TABLE

| L<br>(nH) | Q<br>Tolerance | Q | L, Q measuring<br>frequency<br>(MHz) | Self-resonant<br>frequency |           | DC resistance    |                  | Rated current<br>(mA)max. | Part No.*        |
|-----------|----------------|---|--------------------------------------|----------------------------|-----------|------------------|------------------|---------------------------|------------------|
|           |                |   |                                      | (GHz)min.                  | (GHz)typ. | ( $\Omega$ )max. | ( $\Omega$ )typ. |                           |                  |
| 3.0       | $\pm 0.1$ nH   | 4 | 100                                  | 6.2                        | 7.80      | 0.30             | 0.20             | 300                       | MLG0603S3N0BT000 |
| 3.0       | $\pm 0.2$ nH   | 4 | 100                                  | 6.2                        | 7.80      | 0.30             | 0.20             | 300                       | MLG0603S3N0CT000 |
| 3.0       | $\pm 0.3$ nH   | 4 | 100                                  | 6.20                       | 7.80      | 0.30             | 0.20             | 300                       | MLG0603S3N0ST000 |
| 3.3       | $\pm 0.1$ nH   | 4 | 100                                  | 5.8                        | 7.00      | 0.35             | 0.23             | 300                       | MLG0603S3N3BT000 |
| 3.3       | $\pm 0.2$ nH   | 4 | 100                                  | 5.8                        | 7.00      | 0.35             | 0.23             | 300                       | MLG0603S3N3CT000 |
| 3.3       | $\pm 0.3$ nH   | 4 | 100                                  | 5.80                       | 7.00      | 0.35             | 0.23             | 300                       | MLG0603S3N3ST000 |
| 3.6       | $\pm 0.1$ nH   | 4 | 100                                  | 5.5                        | 6.90      | 0.35             | 0.22             | 300                       | MLG0603S3N6BT000 |
| 3.6       | $\pm 0.2$ nH   | 4 | 100                                  | 5.5                        | 6.90      | 0.35             | 0.22             | 300                       | MLG0603S3N6CT000 |
| 3.6       | $\pm 0.3$ nH   | 4 | 100                                  | 5.50                       | 6.90      | 0.35             | 0.22             | 300                       | MLG0603S3N6ST000 |
| 3.9       | $\pm 0.1$ nH   | 5 | 100                                  | 5.0                        | 6.60      | 0.40             | 0.27             | 300                       | MLG0603S3N9BT000 |
| 3.9       | $\pm 0.2$ nH   | 5 | 100                                  | 5.0                        | 6.60      | 0.40             | 0.27             | 300                       | MLG0603S3N9CT000 |
| 3.9       | $\pm 0.3$ nH   | 5 | 100                                  | 5.00                       | 6.60      | 0.40             | 0.27             | 300                       | MLG0603S3N9ST000 |
| 4.3       | $\pm 0.3$ nH   | 5 | 100                                  | 5.00                       | 6.40      | 0.40             | 0.27             | 300                       | MLG0603S4N3ST000 |
| 4.3       | $\pm 3\%$      | 5 | 100                                  | 5.00                       | 6.40      | 0.40             | 0.27             | 300                       | MLG0603S4N3HT000 |
| 4.7       | $\pm 0.3$ nH   | 5 | 100                                  | 4.50                       | 5.40      | 0.45             | 0.28             | 300                       | MLG0603S4N7ST000 |
| 4.7       | $\pm 3\%$      | 5 | 100                                  | 4.50                       | 5.40      | 0.45             | 0.28             | 300                       | MLG0603S4N7HT000 |
| 5.1       | $\pm 0.3$ nH   | 5 | 100                                  | 4.50                       | 5.50      | 0.45             | 0.23             | 250                       | MLG0603S5N1ST000 |
| 5.1       | $\pm 3\%$      | 5 | 100                                  | 4.50                       | 5.50      | 0.45             | 0.23             | 250                       | MLG0603S5N1HT000 |
| 5.6       | $\pm 0.3$ nH   | 5 | 100                                  | 4.20                       | 5.30      | 0.50             | 0.31             | 250                       | MLG0603S5N6ST000 |
| 5.6       | $\pm 3\%$      | 5 | 100                                  | 4.20                       | 5.30      | 0.50             | 0.31             | 250                       | MLG0603S5N6HT000 |
| 6.2       | $\pm 0.3$ nH   | 5 | 100                                  | 4.20                       | 5.10      | 0.55             | 0.32             | 250                       | MLG0603S6N2ST000 |
| 6.2       | $\pm 3\%$      | 5 | 100                                  | 4.20                       | 5.10      | 0.55             | 0.32             | 250                       | MLG0603S6N2HT000 |
| 6.8       | $\pm 3\%$      | 5 | 100                                  | 3.60                       | 4.40      | 0.60             | 0.32             | 250                       | MLG0603S6N8HT000 |
| 6.8       | $\pm 5\%$      | 5 | 100                                  | 3.60                       | 4.40      | 0.60             | 0.32             | 250                       | MLG0603S6N8JT000 |
| 7.5       | $\pm 3\%$      | 5 | 100                                  | 4.20                       | 5.30      | 0.70             | 0.43             | 200                       | MLG0603S7N5HT000 |
| 7.5       | $\pm 5\%$      | 5 | 100                                  | 4.20                       | 5.30      | 0.70             | 0.43             | 200                       | MLG0603S7N5JT000 |
| 8.2       | $\pm 3\%$      | 5 | 100                                  | 3.80                       | 4.50      | 0.70             | 0.45             | 200                       | MLG0603S8N2HT000 |
| 8.2       | $\pm 5\%$      | 5 | 100                                  | 3.80                       | 4.50      | 0.70             | 0.45             | 200                       | MLG0603S8N2JT000 |
| 9.1       | $\pm 3\%$      | 5 | 100                                  | 3.40                       | 4.90      | 0.80             | 0.51             | 200                       | MLG0603S9N1HT000 |
| 9.1       | $\pm 5\%$      | 5 | 100                                  | 3.40                       | 4.90      | 0.80             | 0.51             | 200                       | MLG0603S9N1JT000 |
| 10        | $\pm 3\%$      | 5 | 100                                  | 3.20                       | 4.10      | 0.80             | 0.53             | 200                       | MLG0603S10NHT000 |
| 10        | $\pm 5\%$      | 5 | 100                                  | 3.20                       | 4.10      | 0.80             | 0.53             | 200                       | MLG0603S10NJT000 |
| 11        | $\pm 3\%$      | 6 | 100                                  | 3.00                       | 3.70      | 0.80             | 0.53             | 200                       | MLG0603S11NHT000 |
| 11        | $\pm 5\%$      | 6 | 100                                  | 3.00                       | 3.70      | 0.80             | 0.53             | 200                       | MLG0603S11NJT000 |
| 12        | $\pm 3\%$      | 6 | 100                                  | 2.80                       | 3.60      | 0.90             | 0.63             | 180                       | MLG0603S12NHT000 |
| 12        | $\pm 5\%$      | 6 | 100                                  | 2.80                       | 3.60      | 0.90             | 0.63             | 180                       | MLG0603S12NJT000 |
| 13        | $\pm 3\%$      | 6 | 100                                  | 2.70                       | 3.40      | 0.90             | 0.60             | 180                       | MLG0603S13NHT000 |
| 13        | $\pm 5\%$      | 6 | 100                                  | 2.70                       | 3.40      | 0.90             | 0.60             | 180                       | MLG0603S13NJT000 |
| 15        | $\pm 3\%$      | 6 | 100                                  | 2.50                       | 3.30      | 1.10             | 0.69             | 180                       | MLG0603S15NHT000 |
| 15        | $\pm 5\%$      | 6 | 100                                  | 2.50                       | 3.30      | 1.10             | 0.69             | 180                       | MLG0603S15NJT000 |
| 16        | $\pm 3\%$      | 6 | 100                                  | 2.30                       | 3.00      | 1.10             | 0.70             | 180                       | MLG0603S16NHT000 |
| 16        | $\pm 5\%$      | 6 | 100                                  | 2.30                       | 3.00      | 1.10             | 0.70             | 180                       | MLG0603S16NJT000 |
| 18        | $\pm 3\%$      | 6 | 100                                  | 2.20                       | 2.80      | 1.20             | 0.78             | 150                       | MLG0603S18NHT000 |
| 18        | $\pm 5\%$      | 6 | 100                                  | 2.20                       | 2.80      | 1.20             | 0.78             | 150                       | MLG0603S18NJT000 |
| 20        | $\pm 3\%$      | 6 | 100                                  | 2.10                       | 2.60      | 1.20             | 0.75             | 150                       | MLG0603S20NHT000 |
| 20        | $\pm 5\%$      | 6 | 100                                  | 2.10                       | 2.60      | 1.20             | 0.75             | 150                       | MLG0603S20NJT000 |

\* Please contact us for  $\pm 2\%$  inductance tolerance (code G) products.

#### Measurement equipment

| Measurement item        | Product No.  | Manufacturer         |
|-------------------------|--------------|----------------------|
| L, Q                    | 4291B+16197A | Agilent Technologies |
| Self-resonant frequency | 8720C        | Agilent Technologies |
| DC resistance           | Type-7561    | Yokogawa             |

\* Equivalent measurement equipment may be used.

# MLG0603S Type

## ELECTRICAL CHARACTERISTICS

### CHARACTERISTICS SPECIFICATION TABLE

| L<br>(nH) | Tolerance | Q<br>min. | L, Q measuring<br>frequency<br>(MHz) | Self-resonant<br>frequency |           | DC resistance    |                  | Rated current<br>(mA)max. | Part No.*        |
|-----------|-----------|-----------|--------------------------------------|----------------------------|-----------|------------------|------------------|---------------------------|------------------|
|           |           |           |                                      | (GHz)min.                  | (GHz)typ. | ( $\Omega$ )max. | ( $\Omega$ )typ. |                           |                  |
| 22        | ±3%       | 6         | 100                                  | 2.00                       | 2.50      | 1.20             | 0.88             | 150                       | MLG0603S22NHT000 |
| 22        | ±5%       | 6         | 100                                  | 2.00                       | 2.50      | 1.20             | 0.88             | 150                       | MLG0603S22NJT000 |
| 24        | ±3%       | 6         | 100                                  | 1.90                       | 2.30      | 1.30             | 0.90             | 150                       | MLG0603S24NHT000 |
| 24        | ±5%       | 6         | 100                                  | 1.90                       | 2.30      | 1.30             | 0.90             | 150                       | MLG0603S24NJT000 |
| 27        | ±3%       | 6         | 100                                  | 1.80                       | 2.20      | 1.50             | 1.00             | 100                       | MLG0603S27NHT000 |
| 27        | ±5%       | 6         | 100                                  | 1.80                       | 2.20      | 1.50             | 1.00             | 100                       | MLG0603S27NJT000 |
| 30        | ±3%       | 6         | 100                                  | 1.60                       | 2.00      | 1.60             | 0.95             | 100                       | MLG0603S30NHT000 |
| 30        | ±5%       | 6         | 100                                  | 1.60                       | 2.00      | 1.60             | 0.95             | 100                       | MLG0603S30NJT000 |
| 33        | ±3%       | 6         | 100                                  | 1.60                       | 2.00      | 1.80             | 1.20             | 100                       | MLG0603S33NHT000 |
| 33        | ±5%       | 6         | 100                                  | 1.60                       | 2.00      | 1.80             | 1.20             | 100                       | MLG0603S33NJT000 |
| 36        | ±3%       | 6         | 100                                  | 1.50                       | 1.80      | 2.00             | 1.68             | 50                        | MLG0603S36NHT000 |
| 36        | ±5%       | 6         | 100                                  | 1.50                       | 1.80      | 2.00             | 1.68             | 50                        | MLG0603S36NJT000 |
| 39        | ±3%       | 6         | 100                                  | 1.40                       | 1.60      | 2.00             | 1.40             | 50                        | MLG0603S39NHT000 |
| 39        | ±5%       | 6         | 100                                  | 1.40                       | 1.60      | 2.00             | 1.40             | 50                        | MLG0603S39NJT000 |
| 43        | ±3%       | 6         | 100                                  | 1.30                       | 1.60      | 2.20             | 1.91             | 50                        | MLG0603S43NHT000 |
| 43        | ±5%       | 6         | 100                                  | 1.30                       | 1.60      | 2.20             | 1.91             | 50                        | MLG0603S43NJT000 |
| 47        | ±3%       | 6         | 100                                  | 1.30                       | 1.50      | 2.20             | 1.48             | 50                        | MLG0603S47NHT000 |
| 47        | ±5%       | 6         | 100                                  | 1.30                       | 1.50      | 2.20             | 1.48             | 50                        | MLG0603S47NJT000 |
| 51        | ±3%       | 5         | 100                                  | 1.20                       | 1.50      | 2.80             | 1.98             | 50                        | MLG0603S51NHT000 |
| 51        | ±5%       | 5         | 100                                  | 1.20                       | 1.50      | 2.80             | 1.98             | 50                        | MLG0603S51NJT000 |
| 56        | ±3%       | 5         | 100                                  | 1.20                       | 1.40      | 3.20             | 2.11             | 50                        | MLG0603S56NHT000 |
| 56        | ±5%       | 5         | 100                                  | 1.20                       | 1.40      | 3.20             | 2.11             | 50                        | MLG0603S56NJT000 |
| 62        | ±3%       | 5         | 100                                  | 1.10                       | 1.30      | 3.30             | 2.22             | 50                        | MLG0603S62NHT000 |
| 62        | ±5%       | 5         | 100                                  | 1.10                       | 1.30      | 3.30             | 2.22             | 50                        | MLG0603S62NJT000 |
| 68        | ±3%       | 5         | 100                                  | 1.05                       | 1.24      | 3.50             | 2.40             | 50                        | MLG0603S68NHT000 |
| 68        | ±5%       | 5         | 100                                  | 1.05                       | 1.24      | 3.50             | 2.40             | 50                        | MLG0603S68NJT000 |
| 75        | ±3%       | 5         | 100                                  | 0.95                       | 1.17      | 3.80             | 2.67             | 50                        | MLG0603S75NHT000 |
| 75        | ±5%       | 5         | 100                                  | 0.95                       | 1.17      | 3.80             | 2.67             | 50                        | MLG0603S75NJT000 |
| 82        | ±3%       | 5         | 100                                  | 0.90                       | 1.08      | 4.00             | 2.80             | 50                        | MLG0603S82NHT000 |
| 82        | ±5%       | 5         | 100                                  | 0.90                       | 1.08      | 4.00             | 2.80             | 50                        | MLG0603S82NJT000 |
| 91        | ±3%       | 5         | 100                                  | 0.77                       | 0.94      | 4.30             | 2.97             | 50                        | MLG0603S91NHT000 |
| 91        | ±5%       | 5         | 100                                  | 0.77                       | 0.94      | 4.30             | 2.97             | 50                        | MLG0603S91NJT000 |
| 100       | ±3%       | 5         | 100                                  | 0.77                       | 0.94      | 4.50             | 3.13             | 50                        | MLG0603SR10HT000 |
| 100       | ±5%       | 5         | 100                                  | 0.77                       | 0.94      | 4.50             | 3.13             | 50                        | MLG0603SR10JT000 |
| 110       | ±3%       | 5         | 100                                  | 0.77                       | 0.94      | 6.50             | 5.24             | 50                        | MLG0603SR11HT000 |
| 110       | ±5%       | 5         | 100                                  | 0.77                       | 0.94      | 6.50             | 5.24             | 50                        | MLG0603SR11JT000 |
| 120       | ±3%       | 5         | 100                                  | 0.70                       | 0.88      | 7.00             | 5.53             | 50                        | MLG0603SR12HT000 |
| 120       | ±5%       | 5         | 100                                  | 0.70                       | 0.88      | 7.00             | 5.53             | 50                        | MLG0603SR12JT000 |
| 130       | ±3%       | 5         | 100                                  | 0.67                       | 0.84      | 7.30             | 5.68             | 50                        | MLG0603SR13HT000 |
| 130       | ±5%       | 5         | 100                                  | 0.67                       | 0.84      | 7.30             | 5.68             | 50                        | MLG0603SR13JT000 |
| 150       | ±3%       | 5         | 100                                  | 0.64                       | 0.77      | 8.00             | 6.24             | 50                        | MLG0603SR15HT000 |
| 150       | ±5%       | 5         | 100                                  | 0.64                       | 0.77      | 8.00             | 6.24             | 50                        | MLG0603SR15JT000 |
| 160       | ±3%       | 5         | 100                                  | 0.60                       | 0.73      | 8.30             | 6.67             | 50                        | MLG0603SR16HT000 |
| 160       | ±5%       | 5         | 100                                  | 0.60                       | 0.73      | 8.30             | 6.67             | 50                        | MLG0603SR16JT000 |
| 180       | ±3%       | 5         | 100                                  | 0.56                       | 0.68      | 8.50             | 6.99             | 50                        | MLG0603SR18HT000 |
| 180       | ±5%       | 5         | 100                                  | 0.56                       | 0.68      | 8.50             | 6.99             | 50                        | MLG0603SR18JT000 |

\* Please contact us for ±2% inductance tolerance (code G) products.

#### ○ Measurement equipment

| Measurement item        | Product No.  | Manufacturer         |
|-------------------------|--------------|----------------------|
| L, Q                    | 4291B+16197A | Agilent Technologies |
| Self-resonant frequency | 8720C        | Agilent Technologies |
| DC resistance           | Type-7561    | Yokogawa             |

\* Equivalent measurement equipment may be used.



# MLG0603S Type

## ELECTRICAL CHARACTERISTICS

### L, Q FREQUENCY CHARACTERISTICS TABLE

| L(nH)typ. |        |        |        |        | Q typ. |        |        |        |        | Part No.*        |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------------------|
| 500MHz    | 800MHz | 1.8GHz | 2.0GHz | 2.4GHz | 500MHz | 800MHz | 1.8GHz | 2.0GHz | 2.4GHz |                  |
| 0.3       | 0.3    | 0.3    | 0.3    | 0.3    | 14min. | 18min. | 29min. | 32min. | 35min. | MLG0603S0N3BT000 |
| 0.3       | 0.3    | 0.3    | 0.3    | 0.3    | 14min. | 18min. | 29min. | 32min. | 35min. | MLG0603S0N3CT000 |
| 0.4       | 0.4    | 0.4    | 0.4    | 0.4    | 14min. | 18min. | 29min. | 32min. | 35min. | MLG0603S0N4BT000 |
| 0.4       | 0.4    | 0.4    | 0.4    | 0.4    | 14min. | 18min. | 29min. | 32min. | 35min. | MLG0603S0N4CT000 |
| 0.5       | 0.5    | 0.5    | 0.5    | 0.5    | 14     | 18     | 29     | 32     | 35     | MLG0603S0N5BT000 |
| 0.5       | 0.5    | 0.5    | 0.5    | 0.5    | 14     | 18     | 29     | 32     | 35     | MLG0603S0N5CT000 |
| 0.6       | 0.6    | 0.5    | 0.5    | 0.5    | 16     | 20     | 33     | 34     | 39     | MLG0603S0N6BT000 |
| 0.6       | 0.6    | 0.5    | 0.5    | 0.5    | 16     | 20     | 33     | 34     | 39     | MLG0603S0N6CT000 |
| 0.7       | 0.6    | 0.6    | 0.6    | 0.6    | 16     | 21     | 33     | 35     | 39     | MLG0603S0N7BT000 |
| 0.7       | 0.6    | 0.6    | 0.6    | 0.6    | 16     | 21     | 33     | 35     | 39     | MLG0603S0N7CT000 |
| 0.7       | 0.7    | 0.7    | 0.7    | 0.7    | 15     | 20     | 32     | 34     | 38     | MLG0603S0N8BT000 |
| 0.7       | 0.7    | 0.7    | 0.7    | 0.7    | 15     | 20     | 32     | 34     | 38     | MLG0603S0N8CT000 |
| 0.8       | 0.8    | 0.8    | 0.8    | 0.8    | 15     | 19     | 30     | 32     | 35     | MLG0603S0N9BT000 |
| 0.8       | 0.8    | 0.8    | 0.8    | 0.8    | 15     | 19     | 30     | 32     | 35     | MLG0603S0N9CT000 |
| 0.9       | 0.9    | 0.9    | 0.9    | 0.9    | 14     | 18     | 29     | 30     | 34     | MLG0603S1N0BT000 |
| 0.9       | 0.9    | 0.9    | 0.9    | 0.9    | 14     | 18     | 29     | 30     | 34     | MLG0603S1N0CT000 |
| 0.9       | 0.9    | 0.9    | 0.9    | 0.9    | 14     | 18     | 29     | 30     | 34     | MLG0603S1N0ST000 |
| 1.0       | 1.0    | 1.0    | 1.0    | 1.0    | 14     | 19     | 29     | 31     | 34     | MLG0603S1N1BT000 |
| 1.0       | 1.0    | 1.0    | 1.0    | 1.0    | 14     | 19     | 29     | 31     | 34     | MLG0603S1N1CT000 |
| 1.0       | 1.0    | 1.0    | 1.0    | 1.0    | 14     | 19     | 29     | 31     | 34     | MLG0603S1N1ST000 |
| 1.1       | 1.1    | 1.1    | 1.1    | 1.1    | 14     | 18     | 29     | 30     | 34     | MLG0603S1N2BT000 |
| 1.1       | 1.1    | 1.1    | 1.1    | 1.1    | 14     | 18     | 29     | 30     | 34     | MLG0603S1N2CT000 |
| 1.1       | 1.1    | 1.1    | 1.1    | 1.1    | 14     | 18     | 29     | 30     | 34     | MLG0603S1N2ST000 |
| 1.2       | 1.2    | 1.2    | 1.2    | 1.2    | 14     | 18     | 29     | 30     | 33     | MLG0603S1N3BT000 |
| 1.2       | 1.2    | 1.2    | 1.2    | 1.2    | 14     | 18     | 29     | 30     | 33     | MLG0603S1N3CT000 |
| 1.2       | 1.2    | 1.2    | 1.2    | 1.2    | 14     | 18     | 29     | 30     | 33     | MLG0603S1N3ST000 |
| 1.4       | 1.4    | 1.4    | 1.4    | 1.4    | 15     | 19     | 29     | 30     | 34     | MLG0603S1N5BT000 |
| 1.4       | 1.4    | 1.4    | 1.4    | 1.4    | 15     | 19     | 29     | 30     | 34     | MLG0603S1N5CT000 |
| 1.4       | 1.4    | 1.4    | 1.4    | 1.4    | 15     | 19     | 29     | 30     | 34     | MLG0603S1N5ST000 |
| 1.5       | 1.5    | 1.5    | 1.5    | 1.5    | 14     | 18     | 29     | 30     | 33     | MLG0603S1N6BT000 |
| 1.5       | 1.5    | 1.5    | 1.5    | 1.5    | 14     | 18     | 29     | 30     | 33     | MLG0603S1N6CT000 |
| 1.5       | 1.5    | 1.5    | 1.5    | 1.5    | 14     | 18     | 29     | 30     | 33     | MLG0603S1N6ST000 |
| 1.7       | 1.7    | 1.7    | 1.7    | 1.7    | 15     | 19     | 29     | 30     | 33     | MLG0603S1N8BT000 |
| 1.7       | 1.7    | 1.7    | 1.7    | 1.7    | 15     | 19     | 29     | 30     | 33     | MLG0603S1N8CT000 |
| 1.7       | 1.7    | 1.7    | 1.7    | 1.7    | 15     | 19     | 29     | 30     | 33     | MLG0603S1N8ST000 |
| 1.9       | 1.9    | 1.9    | 1.9    | 1.9    | 14     | 18     | 28     | 29     | 32     | MLG0603S2N0BT000 |
| 1.9       | 1.9    | 1.9    | 1.9    | 1.9    | 14     | 18     | 28     | 29     | 32     | MLG0603S2N0CT000 |
| 1.9       | 1.9    | 1.9    | 1.9    | 1.9    | 14     | 18     | 28     | 29     | 32     | MLG0603S2N0ST000 |
| 2.1       | 2.0    | 2.1    | 2.1    | 2.1    | 14     | 18     | 27     | 28     | 31     | MLG0603S2N2BT000 |
| 2.1       | 2.0    | 2.1    | 2.1    | 2.1    | 14     | 18     | 27     | 28     | 31     | MLG0603S2N2CT000 |
| 2.1       | 2.0    | 2.1    | 2.1    | 2.1    | 14     | 18     | 27     | 28     | 31     | MLG0603S2N2ST000 |
| 2.2       | 2.2    | 2.2    | 2.3    | 2.3    | 14     | 18     | 27     | 29     | 32     | MLG0603S2N4BT000 |
| 2.2       | 2.2    | 2.2    | 2.3    | 2.3    | 14     | 18     | 27     | 29     | 32     | MLG0603S2N4CT000 |
| 2.2       | 2.2    | 2.2    | 2.3    | 2.3    | 14     | 18     | 27     | 29     | 32     | MLG0603S2N4ST000 |
| 2.5       | 2.5    | 2.6    | 2.6    | 2.7    | 15     | 19     | 28     | 29     | 31     | MLG0603S2N7BT000 |
| 2.5       | 2.5    | 2.6    | 2.6    | 2.7    | 15     | 19     | 28     | 29     | 31     | MLG0603S2N7CT000 |
| 2.5       | 2.5    | 2.6    | 2.6    | 2.7    | 15     | 19     | 28     | 29     | 31     | MLG0603S2N7ST000 |

\* Please contact us for  $\pm 2\%$  inductance tolerance (code G) products.

#### ○ Measurement equipment

| Product No.  | Manufacturer         |
|--------------|----------------------|
| 4291B+16197A | Agilent Technologies |

\* Equivalent measurement equipment may be used.

# MLG0603S Type

## ELECTRICAL CHARACTERISTICS

### L, Q FREQUENCY CHARACTERISTICS TABLE

| L(nH)typ. |        |        |        |        | Q typ. |        |        |        |        | Part No.*        |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------------------|
| 500MHz    | 800MHz | 1.8GHz | 2.0GHz | 2.4GHz | 500MHz | 800MHz | 1.8GHz | 2.0GHz | 2.4GHz |                  |
| 2.8       | 2.8    | 2.9    | 2.9    | 3.0    | 15     | 19     | 29     | 31     | 33     | MLG0603S3N0BT000 |
| 2.8       | 2.8    | 2.9    | 2.9    | 3.0    | 15     | 19     | 29     | 31     | 33     | MLG0603S3N0CT000 |
| 2.8       | 2.8    | 2.9    | 2.9    | 3.0    | 15     | 19     | 29     | 31     | 33     | MLG0603S3N0ST000 |
| 3.1       | 3.1    | 3.2    | 3.3    | 3.4    | 15     | 19     | 28     | 29     | 31     | MLG0603S3N3BT000 |
| 3.1       | 3.1    | 3.2    | 3.3    | 3.4    | 15     | 19     | 28     | 29     | 31     | MLG0603S3N3CT000 |
| 3.1       | 3.1    | 3.2    | 3.3    | 3.4    | 15     | 19     | 28     | 29     | 31     | MLG0603S3N3ST000 |
| 3.4       | 3.4    | 3.5    | 3.6    | 3.7    | 14     | 18     | 26     | 27     | 29     | MLG0603S3N6BT000 |
| 3.4       | 3.4    | 3.5    | 3.6    | 3.7    | 14     | 18     | 26     | 27     | 29     | MLG0603S3N6CT000 |
| 3.4       | 3.4    | 3.5    | 3.6    | 3.7    | 14     | 18     | 26     | 27     | 29     | MLG0603S3N6ST000 |
| 3.7       | 3.7    | 3.8    | 3.9    | 4.1    | 15     | 19     | 29     | 29     | 32     | MLG0603S3N9BT000 |
| 3.7       | 3.7    | 3.8    | 3.9    | 4.1    | 15     | 19     | 29     | 29     | 32     | MLG0603S3N9CT000 |
| 3.7       | 3.7    | 3.8    | 3.9    | 4.1    | 15     | 19     | 29     | 29     | 32     | MLG0603S3N9ST000 |
| 4.1       | 4.1    | 4.3    | 4.4    | 4.6    | 14     | 18     | 27     | 27     | 29     | MLG0603S4N3HT000 |
| 4.1       | 4.1    | 4.3    | 4.4    | 4.6    | 14     | 18     | 27     | 27     | 29     | MLG0603S4N3ST000 |
| 4.4       | 4.4    | 4.8    | 4.9    | 5.2    | 15     | 20     | 28     | 29     | 30     | MLG0603S4N7HT000 |
| 4.4       | 4.4    | 4.8    | 4.9    | 5.2    | 15     | 20     | 28     | 29     | 30     | MLG0603S4N7ST000 |
| 4.8       | 4.8    | 5.1    | 5.3    | 5.6    | 14     | 18     | 25     | 26     | 27     | MLG0603S5N1HT000 |
| 4.8       | 4.8    | 5.1    | 5.3    | 5.6    | 14     | 18     | 25     | 26     | 27     | MLG0603S5N1ST000 |
| 5.3       | 5.3    | 5.7    | 5.9    | 6.4    | 16     | 20     | 27     | 28     | 29     | MLG0603S5N6HT000 |
| 5.3       | 5.3    | 5.7    | 5.9    | 6.4    | 16     | 20     | 27     | 28     | 29     | MLG0603S5N6ST000 |
| 5.9       | 5.9    | 6.5    | 6.8    | 7.5    | 15     | 18     | 25     | 25     | 26     | MLG0603S6N2HT000 |
| 5.9       | 5.9    | 6.5    | 6.8    | 7.5    | 15     | 18     | 25     | 25     | 26     | MLG0603S6N2ST000 |
| 6.4       | 6.5    | 7.4    | 7.8    | 8.7    | 15     | 19     | 26     | 26     | 25     | MLG0603S6N8HT000 |
| 6.4       | 6.5    | 7.4    | 7.8    | 8.7    | 15     | 19     | 26     | 26     | 25     | MLG0603S6N8JT000 |
| 7.1       | 7.1    | 7.8    | 8.0    | 8.7    | 14     | 18     | 25     | 26     | 26     | MLG0603S7N5HT000 |
| 7.1       | 7.1    | 7.8    | 8.0    | 8.7    | 14     | 18     | 25     | 26     | 26     | MLG0603S7N5JT000 |
| 7.8       | 7.8    | 8.8    | 9.3    | 10.4   | 15     | 18     | 24     | 24     | 24     | MLG0603S8N2HT000 |
| 7.8       | 7.8    | 8.8    | 9.3    | 10.4   | 15     | 18     | 24     | 24     | 24     | MLG0603S8N2JT000 |
| 8.6       | 8.6    | 9.8    | 10.3   | 11.5   | 14     | 17     | 22     | 22     | 22     | MLG0603S9N1HT000 |
| 8.6       | 8.6    | 9.8    | 10.3   | 11.5   | 14     | 17     | 22     | 22     | 22     | MLG0603S9N1JT000 |
| 10        | 10     | 12     | 12     | 15     | 15     | 18     | 23     | 22     | 21     | MLG0603S10NHT000 |
| 10        | 10     | 12     | 12     | 15     | 15     | 18     | 23     | 22     | 21     | MLG0603S10NJT000 |
| 10        | 11     | 13     | 14     | 16     | 15     | 18     | 22     | 22     | 20     | MLG0603S11NHT000 |
| 10        | 11     | 13     | 14     | 16     | 15     | 18     | 22     | 22     | 20     | MLG0603S11NJT000 |
| 11        | 12     | 14     | 15     | 19     | 16     | 19     | 24     | 23     | 20     | MLG0603S12NHT000 |
| 11        | 12     | 14     | 15     | 19     | 16     | 19     | 24     | 23     | 20     | MLG0603S12NJT000 |
| 12        | 13     | 16     | 17     | 22     | 14     | 16     | 19     | 18     | 15     | MLG0603S13NHT000 |
| 12        | 13     | 16     | 17     | 22     | 14     | 16     | 19     | 18     | 15     | MLG0603S13NJT000 |
| 14        | 15     | 20     | 23     | 33     | 15     | 19     | 20     | 18     | 14     | MLG0603S15NHT000 |
| 14        | 15     | 20     | 23     | 33     | 15     | 19     | 20     | 18     | 14     | MLG0603S15NJT000 |
| 15        | 16     | 22     | 25     | 37     | 14     | 16     | 16     | 15     | 11     | MLG0603S16NHT000 |
| 15        | 16     | 22     | 25     | 37     | 14     | 16     | 16     | 15     | 11     | MLG0603S16NJT000 |
| 17        | 18     | 28     | 35     |        | 14     | 17     | 15     | 13     |        | MLG0603S18NHT000 |
| 17        | 18     | 28     | 35     |        | 14     | 17     | 15     | 13     |        | MLG0603S18NJT000 |
| 19        | 20     | 32     |        |        | 13     | 16     | 14     |        |        | MLG0603S20NHT000 |
| 19        | 20     | 32     |        |        | 13     | 16     | 14     |        |        | MLG0603S20NJT000 |
| 21        | 23     | 40     |        |        | 15     | 17     | 13     |        |        | MLG0603S22NHT000 |

\* Please contact us for  $\pm 2\%$  inductance tolerance (code G) products.

#### ○ Measurement equipment

| Product No.  | Manufacturer         |
|--------------|----------------------|
| 4291B+16197A | Agilent Technologies |

\* Equivalent measurement equipment may be used.

# MLG0603S Type

## ELECTRICAL CHARACTERISTICS

### L, Q FREQUENCY CHARACTERISTICS TABLE

| L(nH)typ. |        |        |        |        | Q typ. |        |        |        |        | Part No.*        |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------------------|
| 500MHz    | 800MHz | 1.8GHz | 2.0GHz | 2.4GHz | 500MHz | 800MHz | 1.8GHz | 2.0GHz | 2.4GHz |                  |
| 21        | 23     | 40     |        |        | 15     | 17     | 13     |        |        | MLG0603S22NJT000 |
| 23        | 24     | 45     |        |        | 13     | 15     | 13     |        |        | MLG0603S24NHT000 |
| 23        | 24     | 45     |        |        | 13     | 15     | 13     |        |        | MLG0603S24NJT000 |
| 27        | 29     |        |        |        | 15     | 17     |        |        |        | MLG0603S27NHT000 |
| 27        | 29     |        |        |        | 15     | 17     |        |        |        | MLG0603S27NJT000 |
| 29        | 32     |        |        |        | 13     | 15     |        |        |        | MLG0603S30NHT000 |
| 29        | 32     |        |        |        | 13     | 15     |        |        |        | MLG0603S30NJT000 |
| 33        | 36     |        |        |        | 14     | 16     |        |        |        | MLG0603S33NHT000 |
| 33        | 36     |        |        |        | 14     | 16     |        |        |        | MLG0603S33NJT000 |
| 36        | 40     |        |        |        | 14     | 15     |        |        |        | MLG0603S36NHT000 |
| 36        | 40     |        |        |        | 14     | 15     |        |        |        | MLG0603S36NJT000 |
| 40        | 47     |        |        |        | 13     | 14     |        |        |        | MLG0603S39NHT000 |
| 40        | 47     |        |        |        | 13     | 14     |        |        |        | MLG0603S39NJT000 |
| 44        | 53     |        |        |        | 14     | 14     |        |        |        | MLG0603S43NHT000 |
| 44        | 53     |        |        |        | 14     | 14     |        |        |        | MLG0603S43NJT000 |
| 49        | 60     |        |        |        | 13     | 13     |        |        |        | MLG0603S47NHT000 |
| 49        | 60     |        |        |        | 13     | 13     |        |        |        | MLG0603S47NJT000 |
| 52        | 64     |        |        |        | 11     | 11     |        |        |        | MLG0603S51NHT000 |
| 52        | 64     |        |        |        | 11     | 11     |        |        |        | MLG0603S51NJT000 |
| 59        | 77     |        |        |        | 12     | 11     |        |        |        | MLG0603S56NHT000 |
| 59        | 77     |        |        |        | 12     | 11     |        |        |        | MLG0603S56NJT000 |
| 66        | 88     |        |        |        | 11     | 10     |        |        |        | MLG0603S62NHT000 |
| 66        | 88     |        |        |        | 11     | 10     |        |        |        | MLG0603S62NJT000 |
| 74        | 104    |        |        |        | 13     | 11     |        |        |        | MLG0603S68NHT000 |
| 74        | 104    |        |        |        | 13     | 11     |        |        |        | MLG0603S68NJT000 |
| 82        | 119    |        |        |        | 10     | 8      |        |        |        | MLG0603S75NHT000 |
| 82        | 119    |        |        |        | 10     | 8      |        |        |        | MLG0603S75NJT000 |
| 96        | 161    |        |        |        | 12     | 8      |        |        |        | MLG0603S82NHT000 |
| 96        | 161    |        |        |        | 12     | 8      |        |        |        | MLG0603S82NJT000 |
| 109       |        |        |        |        | 9      |        |        |        |        | MLG0603S91NHT000 |
| 109       |        |        |        |        | 9      |        |        |        |        | MLG0603S91NJT000 |
| 129       |        |        |        |        | 11     |        |        |        |        | MLG0603SR10HT000 |
| 129       |        |        |        |        | 11     |        |        |        |        | MLG0603SR10JT000 |
| 134       |        |        |        |        | 10     |        |        |        |        | MLG0603SR11HT000 |
| 134       |        |        |        |        | 10     |        |        |        |        | MLG0603SR11JT000 |
| 156       |        |        |        |        | 9      |        |        |        |        | MLG0603SR12HT000 |
| 156       |        |        |        |        | 9      |        |        |        |        | MLG0603SR12JT000 |
| 172       |        |        |        |        | 8      |        |        |        |        | MLG0603SR13HT000 |
| 172       |        |        |        |        | 8      |        |        |        |        | MLG0603SR13JT000 |
| 223       |        |        |        |        | 7      |        |        |        |        | MLG0603SR15HT000 |
| 223       |        |        |        |        | 7      |        |        |        |        | MLG0603SR15JT000 |
| 238       |        |        |        |        | 7      |        |        |        |        | MLG0603SR16HT000 |
| 238       |        |        |        |        | 7      |        |        |        |        | MLG0603SR16JT000 |
| 318       |        |        |        |        | 6      |        |        |        |        | MLG0603SR18HT000 |
| 318       |        |        |        |        | 6      |        |        |        |        | MLG0603SR18JT000 |

\* Please contact us for  $\pm 2\%$  inductance tolerance (code G) products.

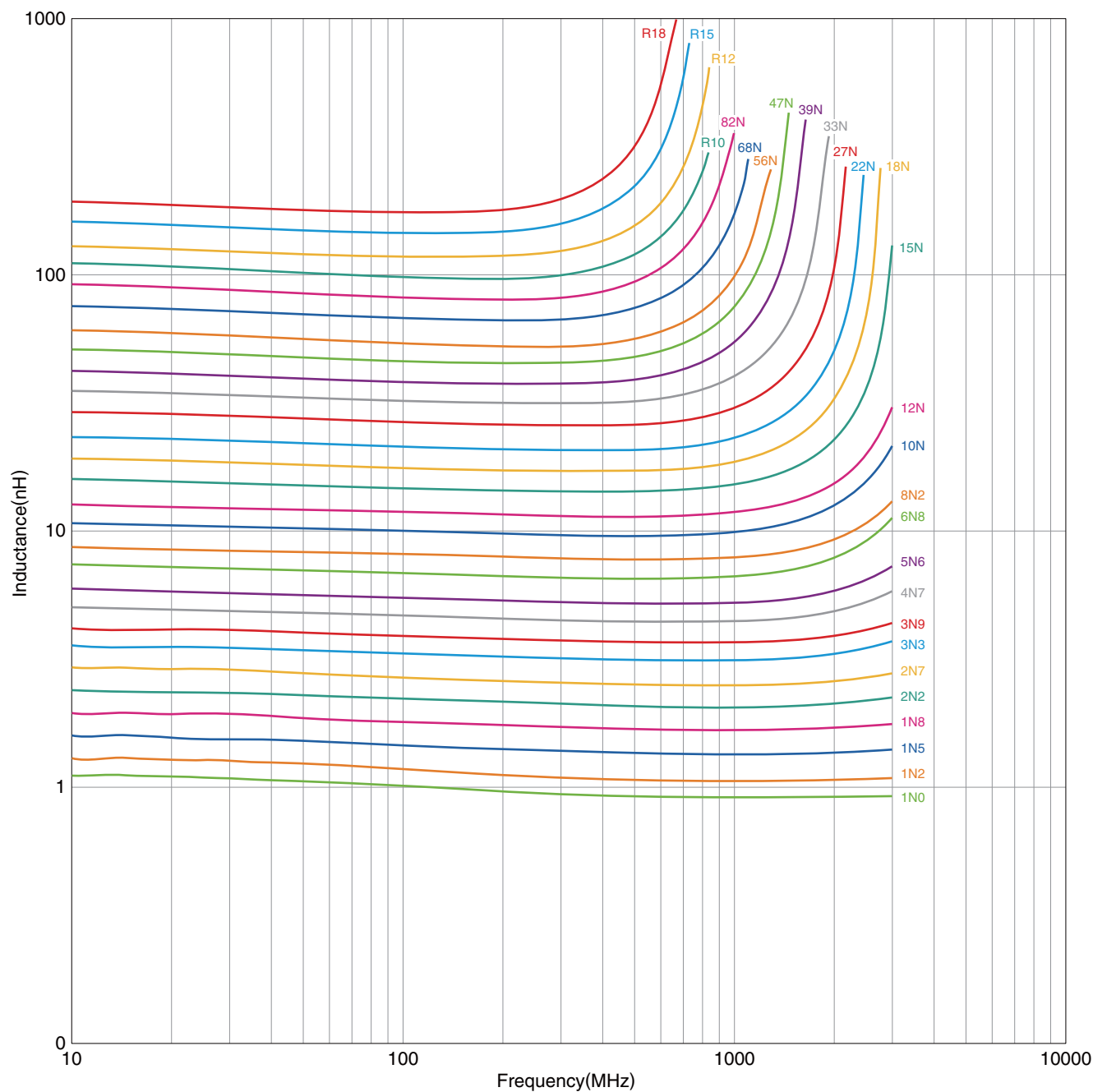
#### ○ Measurement equipment

| Product No.                                     | Manufacturer         |
|-------------------------------------------------|----------------------|
| 4291B+16197A                                    | Agilent Technologies |
| * Equivalent measurement equipment may be used. |                      |

# MLG0603S Type

## ELECTRICAL CHARACTERISTICS

### L FREQUENCY CHARACTERISTICS GRAPH (EXAMPLE)



○ Measurement equipment

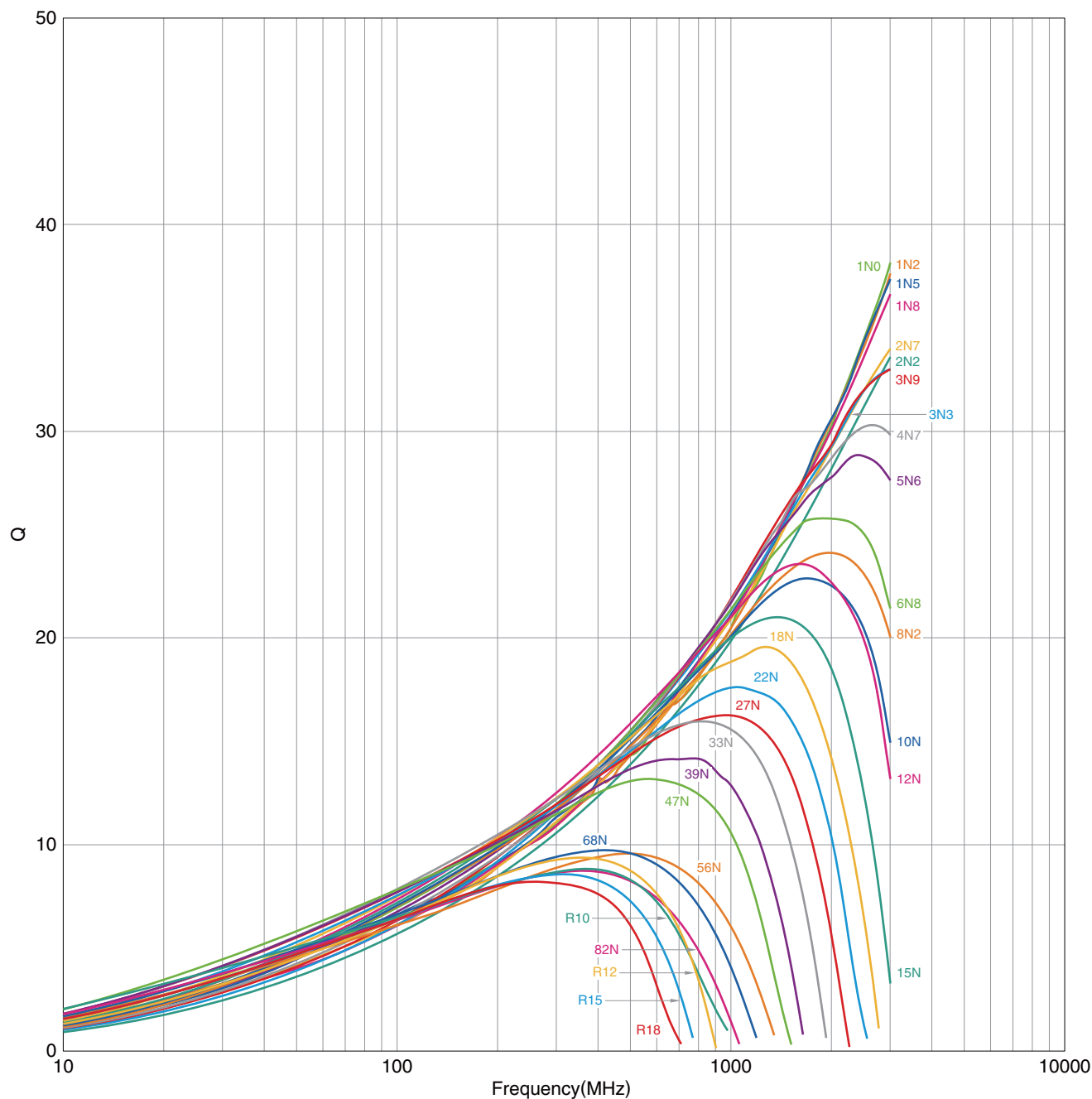
| Product No.    | Manufacturer         |
|----------------|----------------------|
| E4991A +16197A | Agilent Technologies |

\* Equivalent measurement equipment may be used.

# MLG0603S Type

## ELECTRICAL CHARACTERISTICS

### Q FREQUENCY CHARACTERISTICS GRAPH (EXAMPLE)



○ Measurement equipment

| Product No.    | Manufacturer         |
|----------------|----------------------|
| E4991A +16197A | Agilent Technologies |

\* Equivalent measurement equipment may be used.

## REEL DIMENSIONS



Technical drawing of a mechanical part with dimensions and labels:

- Sprocket hole**: Label pointing to the first hole on the left.
- 1.5<sup>+0.1</sup><sub>-0.0</sub>**: Dimension for the distance between the first and second holes.
- Cavity**: Label pointing to the central feature.
- 1.75<sup>+0.1</sup>**: Dimension for the distance from the right edge to the center of the last hole.
- 3.5<sup>+0.05</sup>**: Dimension for the distance from the right edge to the center of the second hole from the right.
- 8.0<sup>+0.3</sup>**: Total width of the part.
- A**: Label for the distance from the right edge to the center of the last hole.
- K**: Label for the distance from the left edge to the center of the first hole.
- B**: Label for the distance from the left edge to the center of the second hole.
- 4.0<sup>+0.1</sup>**: Dimension for the distance between the center of the second hole and the center of the third hole.
- 2.0<sup>+0.05</sup>**: Dimension for the distance between the center of the third hole and the center of the fourth hole.
- 2.0<sup>+0.05</sup>**: Dimension for the distance between the center of the fourth hole and the center of the fifth hole.

Figure 1 is a schematic diagram of the drawing process. It shows a cross-section of a wire being drawn through a die. The process is divided into three main sections: a 160min. section, a Taping section, and a 200min. section. The total length of the wire is 300min. The drawing direction is indicated by an arrow pointing to the right. The dimensions are in mm.

Dimensions in mm

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