

Inductors for high frequency circuits  
Multilayer ceramic  
MLG-P series



## MLG0603P type



### FEATURES

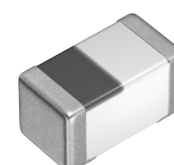
- High Q type inductor for high-frequency circuits.
- Inductance range: from 0.6 to 120nH.
- 0.1n step inductance lineup.
- Compared with existing products, the size was greatly reduced, making it optimal for fine-pitch circuits.
- Optimal configuration that greatly improves the Q to 800MHz or higher.
- Advanced monolithic structure is formed using a multilayering and sintering process with ceramic and conductive materials for high-frequency.
- Operating temperature range: -55 to +125°C

### 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
- Application guides: [Smart phones/tablets](#)

### PART NUMBER CONSTRUCTION

|             |                                    |                 |                    |                         |                 |               |
|-------------|------------------------------------|-----------------|--------------------|-------------------------|-----------------|---------------|
| MLG         | 0603                               | P               | 0N6                | B                       | T               | 000           |
| Series name | L×W×H dimensions<br>0.6×0.3×0.3 mm | Characteristics | Inductance<br>(nH) | Inductance<br>tolerance | Packaging style | Internal code |



## MLG0603P type

## ■ 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. |                           |                                  |
| 0.6       | $\pm 0.1\text{nH}$ | —         | 500                                  | 10.0                       | 20.0      | 0.06             | 0.01             | 1000                      | <a href="#">MLG0603P0N6BT000</a> |
| 0.6       | $\pm 0.2\text{nH}$ | —         | 500                                  | 10.0                       | 20.0      | 0.06             | 0.01             | 1000                      | <a href="#">MLG0603P0N6CT000</a> |
| 0.7       | $\pm 0.1\text{nH}$ | —         | 500                                  | 10.0                       | 20.0      | 0.06             | 0.01             | 1000                      | <a href="#">MLG0603P0N7BT000</a> |
| 0.7       | $\pm 0.2\text{nH}$ | —         | 500                                  | 10.0                       | 20.0      | 0.06             | 0.01             | 1000                      | <a href="#">MLG0603P0N7CT000</a> |
| 0.8       | $\pm 0.1\text{nH}$ | —         | 500                                  | 10.0                       | 20.0      | 0.06             | 0.02             | 1000                      | <a href="#">MLG0603P0N8BT000</a> |
| 0.8       | $\pm 0.2\text{nH}$ | —         | 500                                  | 10.0                       | 20.0      | 0.06             | 0.02             | 1000                      | <a href="#">MLG0603P0N8CT000</a> |
| 0.9       | $\pm 0.1\text{nH}$ | —         | 500                                  | 10.0                       | 20.0      | 0.06             | 0.02             | 1000                      | <a href="#">MLG0603P0N9BT000</a> |
| 0.9       | $\pm 0.2\text{nH}$ | —         | 500                                  | 10.0                       | 20.0      | 0.06             | 0.02             | 1000                      | <a href="#">MLG0603P0N9CT000</a> |
| 1.0       | $\pm 0.1\text{nH}$ | 14        | 500                                  | 10.0                       | 20.0      | 0.07             | 0.02             | 1000                      | <a href="#">MLG0603P1N0BT000</a> |
| 1.0       | $\pm 0.2\text{nH}$ | 14        | 500                                  | 10.0                       | 20.0      | 0.07             | 0.02             | 1000                      | <a href="#">MLG0603P1N0CT000</a> |
| 1.0       | $\pm 0.3\text{nH}$ | 14        | 500                                  | 10.0                       | 20.0      | 0.07             | 0.02             | 1000                      | <a href="#">MLG0603P1N0ST000</a> |
| 1.1       | $\pm 0.1\text{nH}$ | 14        | 500                                  | 10.0                       | 19.9      | 0.07             | 0.03             | 1000                      | <a href="#">MLG0603P1N1BT000</a> |
| 1.1       | $\pm 0.2\text{nH}$ | 14        | 500                                  | 10.0                       | 19.9      | 0.07             | 0.03             | 1000                      | <a href="#">MLG0603P1N1CT000</a> |
| 1.1       | $\pm 0.3\text{nH}$ | 14        | 500                                  | 10.0                       | 19.9      | 0.07             | 0.03             | 1000                      | <a href="#">MLG0603P1N1ST000</a> |
| 1.2       | $\pm 0.1\text{nH}$ | 14        | 500                                  | 10.0                       | 16.0      | 0.08             | 0.04             | 800                       | <a href="#">MLG0603P1N2BT000</a> |
| 1.2       | $\pm 0.2\text{nH}$ | 14        | 500                                  | 10.0                       | 16.0      | 0.08             | 0.04             | 800                       | <a href="#">MLG0603P1N2CT000</a> |
| 1.2       | $\pm 0.3\text{nH}$ | 14        | 500                                  | 10.0                       | 16.0      | 0.08             | 0.04             | 800                       | <a href="#">MLG0603P1N2ST000</a> |
| 1.3       | $\pm 0.1\text{nH}$ | 14        | 500                                  | 10.0                       | 13.9      | 0.08             | 0.03             | 800                       | <a href="#">MLG0603P1N3BT000</a> |
| 1.3       | $\pm 0.2\text{nH}$ | 14        | 500                                  | 10.0                       | 13.9      | 0.08             | 0.03             | 800                       | <a href="#">MLG0603P1N3CT000</a> |
| 1.3       | $\pm 0.3\text{nH}$ | 14        | 500                                  | 10.0                       | 13.9      | 0.08             | 0.03             | 800                       | <a href="#">MLG0603P1N3ST000</a> |
| 1.4       | $\pm 0.1\text{nH}$ | 14        | 500                                  | 10.0                       | 11.7      | 0.09             | 0.04             | 800                       | <a href="#">MLG0603P1N4BT000</a> |
| 1.4       | $\pm 0.2\text{nH}$ | 14        | 500                                  | 10.0                       | 11.7      | 0.09             | 0.04             | 800                       | <a href="#">MLG0603P1N4CT000</a> |
| 1.4       | $\pm 0.3\text{nH}$ | 14        | 500                                  | 10.0                       | 11.7      | 0.09             | 0.04             | 800                       | <a href="#">MLG0603P1N4ST000</a> |
| 1.5       | $\pm 0.1\text{nH}$ | 14        | 500                                  | 10.0                       | 14.9      | 0.10             | 0.03             | 800                       | <a href="#">MLG0603P1N5BT000</a> |
| 1.5       | $\pm 0.2\text{nH}$ | 14        | 500                                  | 10.0                       | 14.9      | 0.10             | 0.03             | 800                       | <a href="#">MLG0603P1N5CT000</a> |
| 1.5       | $\pm 0.3\text{nH}$ | 14        | 500                                  | 10.0                       | 14.9      | 0.10             | 0.03             | 800                       | <a href="#">MLG0603P1N5ST000</a> |
| 1.6       | $\pm 0.1\text{nH}$ | 14        | 500                                  | 10.0                       | 13.4      | 0.10             | 0.03             | 700                       | <a href="#">MLG0603P1N6BT000</a> |
| 1.6       | $\pm 0.2\text{nH}$ | 14        | 500                                  | 10.0                       | 13.4      | 0.10             | 0.03             | 700                       | <a href="#">MLG0603P1N6CT000</a> |
| 1.6       | $\pm 0.3\text{nH}$ | 14        | 500                                  | 10.0                       | 13.4      | 0.10             | 0.03             | 700                       | <a href="#">MLG0603P1N6ST000</a> |
| 1.7       | $\pm 0.1\text{nH}$ | 14        | 500                                  | 10.0                       | 12.8      | 0.10             | 0.02             | 700                       | <a href="#">MLG0603P1N7BT000</a> |
| 1.7       | $\pm 0.2\text{nH}$ | 14        | 500                                  | 10.0                       | 12.8      | 0.10             | 0.02             | 700                       | <a href="#">MLG0603P1N7CT000</a> |
| 1.7       | $\pm 0.3\text{nH}$ | 14        | 500                                  | 10.0                       | 12.8      | 0.10             | 0.02             | 700                       | <a href="#">MLG0603P1N7ST000</a> |
| 1.8       | $\pm 0.1\text{nH}$ | 14        | 500                                  | 9.0                        | 10.7      | 0.10             | 0.03             | 700                       | <a href="#">MLG0603P1N8BT000</a> |
| 1.8       | $\pm 0.2\text{nH}$ | 14        | 500                                  | 9.0                        | 10.7      | 0.10             | 0.03             | 700                       | <a href="#">MLG0603P1N8CT000</a> |
| 1.8       | $\pm 0.3\text{nH}$ | 14        | 500                                  | 9.0                        | 10.7      | 0.10             | 0.03             | 700                       | <a href="#">MLG0603P1N8ST000</a> |
| 1.9       | $\pm 0.1\text{nH}$ | 14        | 500                                  | 9.0                        | 10.9      | 0.10             | 0.04             | 600                       | <a href="#">MLG0603P1N9BT000</a> |
| 1.9       | $\pm 0.2\text{nH}$ | 14        | 500                                  | 9.0                        | 10.9      | 0.10             | 0.04             | 600                       | <a href="#">MLG0603P1N9CT000</a> |
| 1.9       | $\pm 0.3\text{nH}$ | 14        | 500                                  | 9.0                        | 10.9      | 0.10             | 0.04             | 600                       | <a href="#">MLG0603P1N9ST000</a> |
| 2.0       | $\pm 0.1\text{nH}$ | 14        | 500                                  | 8.5                        | 10.1      | 0.10             | 0.03             | 600                       | <a href="#">MLG0603P2N0BT000</a> |
| 2.0       | $\pm 0.2\text{nH}$ | 14        | 500                                  | 8.5                        | 10.1      | 0.10             | 0.03             | 600                       | <a href="#">MLG0603P2N0CT000</a> |
| 2.0       | $\pm 0.3\text{nH}$ | 14        | 500                                  | 8.5                        | 10.1      | 0.10             | 0.03             | 600                       | <a href="#">MLG0603P2N0ST000</a> |
| 2.1       | $\pm 0.1\text{nH}$ | 14        | 500                                  | 8.0                        | 9.8       | 0.10             | 0.05             | 600                       | <a href="#">MLG0603P2N1BT000</a> |
| 2.1       | $\pm 0.2\text{nH}$ | 14        | 500                                  | 8.0                        | 9.8       | 0.10             | 0.05             | 600                       | <a href="#">MLG0603P2N1CT000</a> |
| 2.1       | $\pm 0.3\text{nH}$ | 14        | 500                                  | 8.0                        | 9.8       | 0.10             | 0.05             | 600                       | <a href="#">MLG0603P2N1ST000</a> |

\* Please contact us for information on inductance tolerance, G ( $\pm 2\%$ ).

• Short bar residual inductance  $\approx 0.43\text{nH}$

## Measurement equipment

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

\* Equivalent measurement equipment may be used.

## MLG0603P type

## ■ 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. |                           |                                  |
| 2.2       | $\pm 0.1\text{nH}$ | 14        | 500                                  | 7.5                        | 9.0       | 0.10             | 0.07             | 600                       | <a href="#">MLG0603P2N2BT000</a> |
| 2.2       | $\pm 0.2\text{nH}$ | 14        | 500                                  | 7.5                        | 9.0       | 0.10             | 0.07             | 600                       | <a href="#">MLG0603P2N2CT000</a> |
| 2.2       | $\pm 0.3\text{nH}$ | 14        | 500                                  | 7.5                        | 9.0       | 0.10             | 0.07             | 600                       | <a href="#">MLG0603P2N2ST000</a> |
| 2.3       | $\pm 0.1\text{nH}$ | 14        | 500                                  | 7.5                        | 8.4       | 0.20             | 0.07             | 600                       | <a href="#">MLG0603P2N3BT000</a> |
| 2.3       | $\pm 0.2\text{nH}$ | 14        | 500                                  | 7.5                        | 8.4       | 0.20             | 0.07             | 600                       | <a href="#">MLG0603P2N3CT000</a> |
| 2.3       | $\pm 0.3\text{nH}$ | 14        | 500                                  | 7.5                        | 8.4       | 0.20             | 0.07             | 600                       | <a href="#">MLG0603P2N3ST000</a> |
| 2.4       | $\pm 0.1\text{nH}$ | 14        | 500                                  | 7.5                        | 10.9      | 0.20             | 0.12             | 500                       | <a href="#">MLG0603P2N4BT000</a> |
| 2.4       | $\pm 0.2\text{nH}$ | 14        | 500                                  | 7.5                        | 10.9      | 0.20             | 0.12             | 500                       | <a href="#">MLG0603P2N4CT000</a> |
| 2.4       | $\pm 0.3\text{nH}$ | 14        | 500                                  | 7.5                        | 10.9      | 0.20             | 0.12             | 500                       | <a href="#">MLG0603P2N4ST000</a> |
| 2.5       | $\pm 0.1\text{nH}$ | 14        | 500                                  | 7.5                        | 9.9       | 0.20             | 0.09             | 500                       | <a href="#">MLG0603P2N5BT000</a> |
| 2.5       | $\pm 0.2\text{nH}$ | 14        | 500                                  | 7.5                        | 9.9       | 0.20             | 0.09             | 500                       | <a href="#">MLG0603P2N5CT000</a> |
| 2.5       | $\pm 0.3\text{nH}$ | 14        | 500                                  | 7.5                        | 9.9       | 0.20             | 0.09             | 500                       | <a href="#">MLG0603P2N5ST000</a> |
| 2.6       | $\pm 0.1\text{nH}$ | 14        | 500                                  | 7.5                        | 10.1      | 0.20             | 0.14             | 500                       | <a href="#">MLG0603P2N6BT000</a> |
| 2.6       | $\pm 0.2\text{nH}$ | 14        | 500                                  | 7.5                        | 10.1      | 0.20             | 0.14             | 500                       | <a href="#">MLG0603P2N6CT000</a> |
| 2.6       | $\pm 0.3\text{nH}$ | 14        | 500                                  | 7.5                        | 10.1      | 0.20             | 0.14             | 500                       | <a href="#">MLG0603P2N6ST000</a> |
| 2.7       | $\pm 0.1\text{nH}$ | 14        | 500                                  | 7.5                        | 10.0      | 0.20             | 0.14             | 500                       | <a href="#">MLG0603P2N7BT000</a> |
| 2.7       | $\pm 0.2\text{nH}$ | 14        | 500                                  | 7.5                        | 10.0      | 0.20             | 0.14             | 500                       | <a href="#">MLG0603P2N7CT000</a> |
| 2.7       | $\pm 0.3\text{nH}$ | 14        | 500                                  | 7.5                        | 10.0      | 0.20             | 0.14             | 500                       | <a href="#">MLG0603P2N7ST000</a> |
| 2.8       | $\pm 0.1\text{nH}$ | 14        | 500                                  | 7.5                        | 9.9       | 0.20             | 0.10             | 500                       | <a href="#">MLG0603P2N8BT000</a> |
| 2.8       | $\pm 0.2\text{nH}$ | 14        | 500                                  | 7.5                        | 9.9       | 0.20             | 0.10             | 500                       | <a href="#">MLG0603P2N8CT000</a> |
| 2.8       | $\pm 0.3\text{nH}$ | 14        | 500                                  | 7.5                        | 9.9       | 0.20             | 0.10             | 500                       | <a href="#">MLG0603P2N8ST000</a> |
| 2.9       | $\pm 0.1\text{nH}$ | 14        | 500                                  | 7.5                        | 9.2       | 0.20             | 0.10             | 500                       | <a href="#">MLG0603P2N9BT000</a> |
| 2.9       | $\pm 0.2\text{nH}$ | 14        | 500                                  | 7.5                        | 9.2       | 0.20             | 0.10             | 500                       | <a href="#">MLG0603P2N9CT000</a> |
| 2.9       | $\pm 0.3\text{nH}$ | 14        | 500                                  | 7.5                        | 9.2       | 0.20             | 0.10             | 500                       | <a href="#">MLG0603P2N9ST000</a> |
| 3.0       | $\pm 0.1\text{nH}$ | 14        | 500                                  | 7.5                        | 9.1       | 0.20             | 0.14             | 450                       | <a href="#">MLG0603P3N0BT000</a> |
| 3.0       | $\pm 0.2\text{nH}$ | 14        | 500                                  | 7.5                        | 9.1       | 0.20             | 0.14             | 450                       | <a href="#">MLG0603P3N0CT000</a> |
| 3.0       | $\pm 0.3\text{nH}$ | 14        | 500                                  | 7.5                        | 9.1       | 0.20             | 0.14             | 450                       | <a href="#">MLG0603P3N0ST000</a> |
| 3.1       | $\pm 0.1\text{nH}$ | 14        | 500                                  | 7.5                        | 8.8       | 0.20             | 0.10             | 450                       | <a href="#">MLG0603P3N1BT000</a> |
| 3.1       | $\pm 0.2\text{nH}$ | 14        | 500                                  | 7.5                        | 8.8       | 0.20             | 0.10             | 450                       | <a href="#">MLG0603P3N1CT000</a> |
| 3.1       | $\pm 0.3\text{nH}$ | 14        | 500                                  | 7.5                        | 8.8       | 0.20             | 0.10             | 450                       | <a href="#">MLG0603P3N1ST000</a> |
| 3.2       | $\pm 0.1\text{nH}$ | 14        | 500                                  | 7.5                        | 8.4       | 0.20             | 0.14             | 450                       | <a href="#">MLG0603P3N2BT000</a> |
| 3.2       | $\pm 0.2\text{nH}$ | 14        | 500                                  | 7.5                        | 8.4       | 0.20             | 0.14             | 450                       | <a href="#">MLG0603P3N2CT000</a> |
| 3.2       | $\pm 0.3\text{nH}$ | 14        | 500                                  | 7.5                        | 8.4       | 0.20             | 0.14             | 450                       | <a href="#">MLG0603P3N2ST000</a> |
| 3.3       | $\pm 0.1\text{nH}$ | 14        | 500                                  | 7.5                        | 8.4       | 0.20             | 0.13             | 450                       | <a href="#">MLG0603P3N3BT000</a> |
| 3.3       | $\pm 0.2\text{nH}$ | 14        | 500                                  | 7.5                        | 8.4       | 0.20             | 0.13             | 450                       | <a href="#">MLG0603P3N3CT000</a> |
| 3.3       | $\pm 0.3\text{nH}$ | 14        | 500                                  | 7.5                        | 8.4       | 0.20             | 0.13             | 450                       | <a href="#">MLG0603P3N3ST000</a> |
| 3.4       | $\pm 0.1\text{nH}$ | 14        | 500                                  | 7.0                        | 8.1       | 0.20             | 0.13             | 450                       | <a href="#">MLG0603P3N4BT000</a> |
| 3.4       | $\pm 0.2\text{nH}$ | 14        | 500                                  | 7.0                        | 8.1       | 0.20             | 0.13             | 450                       | <a href="#">MLG0603P3N4CT000</a> |
| 3.4       | $\pm 0.3\text{nH}$ | 14        | 500                                  | 7.0                        | 8.1       | 0.20             | 0.13             | 450                       | <a href="#">MLG0603P3N4ST000</a> |
| 3.5       | $\pm 0.1\text{nH}$ | 14        | 500                                  | 6.5                        | 8.0       | 0.20             | 0.12             | 450                       | <a href="#">MLG0603P3N5BT000</a> |
| 3.5       | $\pm 0.2\text{nH}$ | 14        | 500                                  | 6.5                        | 8.0       | 0.20             | 0.12             | 450                       | <a href="#">MLG0603P3N5CT000</a> |
| 3.5       | $\pm 0.3\text{nH}$ | 14        | 500                                  | 6.5                        | 8.0       | 0.20             | 0.12             | 450                       | <a href="#">MLG0603P3N5ST000</a> |
| 3.6       | $\pm 0.1\text{nH}$ | 14        | 500                                  | 6.5                        | 7.7       | 0.20             | 0.10             | 400                       | <a href="#">MLG0603P3N6BT000</a> |
| 3.6       | $\pm 0.2\text{nH}$ | 14        | 500                                  | 6.5                        | 7.7       | 0.20             | 0.10             | 400                       | <a href="#">MLG0603P3N6CT000</a> |
| 3.6       | $\pm 0.3\text{nH}$ | 14        | 500                                  | 6.5                        | 7.7       | 0.20             | 0.10             | 400                       | <a href="#">MLG0603P3N6ST000</a> |

\* Please contact us for information on inductance tolerance, G ( $\pm 2\%$ ).

• Short bar residual inductance = 0.43nH

## Measurement equipment

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

\* Equivalent measurement equipment may be used.

## MLG0603P type

## ■ 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. |                           |                                  |
| 3.7       | $\pm 0.1\text{nH}$ | 14        | 500                                  | 6.5                        | 7.4       | 0.20             | 0.14             | 400                       | <a href="#">MLG0603P3N7BT000</a> |
| 3.7       | $\pm 0.2\text{nH}$ | 14        | 500                                  | 6.5                        | 7.4       | 0.20             | 0.14             | 400                       | <a href="#">MLG0603P3N7CT000</a> |
| 3.7       | $\pm 0.3\text{nH}$ | 14        | 500                                  | 6.5                        | 7.4       | 0.20             | 0.14             | 400                       | <a href="#">MLG0603P3N7ST000</a> |
| 3.8       | $\pm 0.1\text{nH}$ | 14        | 500                                  | 5.8                        | 7.0       | 0.30             | 0.24             | 400                       | <a href="#">MLG0603P3N8BT000</a> |
| 3.8       | $\pm 0.2\text{nH}$ | 14        | 500                                  | 5.8                        | 7.0       | 0.30             | 0.24             | 400                       | <a href="#">MLG0603P3N8CT000</a> |
| 3.8       | $\pm 0.3\text{nH}$ | 14        | 500                                  | 5.8                        | 7.0       | 0.30             | 0.24             | 400                       | <a href="#">MLG0603P3N8ST000</a> |
| 3.9       | $\pm 0.1\text{nH}$ | 14        | 500                                  | 5.8                        | 7.1       | 0.30             | 0.22             | 400                       | <a href="#">MLG0603P3N9BT000</a> |
| 3.9       | $\pm 0.2\text{nH}$ | 14        | 500                                  | 5.8                        | 7.1       | 0.30             | 0.22             | 400                       | <a href="#">MLG0603P3N9CT000</a> |
| 3.9       | $\pm 0.3\text{nH}$ | 14        | 500                                  | 5.8                        | 7.1       | 0.30             | 0.22             | 400                       | <a href="#">MLG0603P3N9ST000</a> |
| 4.0       | $\pm 0.1\text{nH}$ | 14        | 500                                  | 5.8                        | 6.7       | 0.40             | 0.21             | 350                       | <a href="#">MLG0603P4N0BT000</a> |
| 4.0       | $\pm 0.2\text{nH}$ | 14        | 500                                  | 5.8                        | 6.7       | 0.40             | 0.21             | 350                       | <a href="#">MLG0603P4N0CT000</a> |
| 4.0       | $\pm 0.3\text{nH}$ | 14        | 500                                  | 5.8                        | 6.7       | 0.40             | 0.21             | 350                       | <a href="#">MLG0603P4N0ST000</a> |
| 4.1       | $\pm 0.1\text{nH}$ | 14        | 500                                  | 5.8                        | 6.7       | 0.40             | 0.29             | 350                       | <a href="#">MLG0603P4N1BT000</a> |
| 4.1       | $\pm 0.2\text{nH}$ | 14        | 500                                  | 5.8                        | 6.7       | 0.40             | 0.29             | 350                       | <a href="#">MLG0603P4N1CT000</a> |
| 4.1       | $\pm 0.3\text{nH}$ | 14        | 500                                  | 5.8                        | 6.7       | 0.40             | 0.29             | 350                       | <a href="#">MLG0603P4N1ST000</a> |
| 4.2       | $\pm 0.1\text{nH}$ | 14        | 500                                  | 5.8                        | 6.6       | 0.40             | 0.24             | 350                       | <a href="#">MLG0603P4N2BT000</a> |
| 4.2       | $\pm 0.2\text{nH}$ | 14        | 500                                  | 5.8                        | 6.6       | 0.40             | 0.24             | 350                       | <a href="#">MLG0603P4N2CT000</a> |
| 4.2       | $\pm 0.3\text{nH}$ | 14        | 500                                  | 5.8                        | 6.6       | 0.40             | 0.24             | 350                       | <a href="#">MLG0603P4N2ST000</a> |
| 4.3       | $\pm 0.3\text{nH}$ | 14        | 500                                  | 5.8                        | 6.7       | 0.40             | 0.24             | 350                       | <a href="#">MLG0603P4N3ST000</a> |
| 4.3       | $\pm 3\%$          | 14        | 500                                  | 5.8                        | 6.7       | 0.40             | 0.24             | 350                       | <a href="#">MLG0603P4N3HT000</a> |
| 4.3       | $\pm 5\%$          | 14        | 500                                  | 5.8                        | 6.7       | 0.40             | 0.24             | 350                       | <a href="#">MLG0603P4N3JT000</a> |
| 4.7       | $\pm 0.3\text{nH}$ | 14        | 500                                  | 5.5                        | 6.9       | 0.40             | 0.16             | 350                       | <a href="#">MLG0603P4N7ST000</a> |
| 4.7       | $\pm 3\%$          | 14        | 500                                  | 5.5                        | 6.9       | 0.40             | 0.16             | 350                       | <a href="#">MLG0603P4N7HT000</a> |
| 4.7       | $\pm 5\%$          | 14        | 500                                  | 5.5                        | 6.9       | 0.40             | 0.16             | 350                       | <a href="#">MLG0603P4N7JT000</a> |
| 5.1       | $\pm 0.3\text{nH}$ | 14        | 500                                  | 5.5                        | 6.6       | 0.40             | 0.30             | 350                       | <a href="#">MLG0603P5N1ST000</a> |
| 5.1       | $\pm 3\%$          | 14        | 500                                  | 5.5                        | 6.6       | 0.40             | 0.30             | 350                       | <a href="#">MLG0603P5N1HT000</a> |
| 5.1       | $\pm 5\%$          | 14        | 500                                  | 5.5                        | 6.6       | 0.40             | 0.30             | 350                       | <a href="#">MLG0603P5N1JT000</a> |
| 5.6       | $\pm 0.3\text{nH}$ | 14        | 500                                  | 4.0                        | 5.3       | 0.40             | 0.32             | 350                       | <a href="#">MLG0603P5N6ST000</a> |
| 5.6       | $\pm 3\%$          | 14        | 500                                  | 4.0                        | 5.3       | 0.40             | 0.32             | 350                       | <a href="#">MLG0603P5N6HT000</a> |
| 5.6       | $\pm 5\%$          | 14        | 500                                  | 4.0                        | 5.3       | 0.40             | 0.32             | 350                       | <a href="#">MLG0603P5N6JT000</a> |
| 6.2       | $\pm 0.3\text{nH}$ | 14        | 500                                  | 4.0                        | 6.3       | 0.70             | 0.59             | 300                       | <a href="#">MLG0603P6N2ST000</a> |
| 6.2       | $\pm 3\%$          | 14        | 500                                  | 4.0                        | 6.3       | 0.70             | 0.59             | 300                       | <a href="#">MLG0603P6N2HT000</a> |
| 6.2       | $\pm 5\%$          | 14        | 500                                  | 4.0                        | 6.3       | 0.70             | 0.59             | 300                       | <a href="#">MLG0603P6N2JT000</a> |
| 6.8       | $\pm 3\%$          | 14        | 500                                  | 4.0                        | 6.1       | 0.75             | 0.62             | 300                       | <a href="#">MLG0603P6N8HT000</a> |
| 6.8       | $\pm 5\%$          | 14        | 500                                  | 4.0                        | 6.1       | 0.75             | 0.62             | 300                       | <a href="#">MLG0603P6N8JT000</a> |
| 7.5       | $\pm 3\%$          | 14        | 500                                  | 4.0                        | 5.4       | 0.80             | 0.70             | 300                       | <a href="#">MLG0603P7N5HT000</a> |
| 7.5       | $\pm 5\%$          | 14        | 500                                  | 4.0                        | 5.4       | 0.80             | 0.70             | 300                       | <a href="#">MLG0603P7N5JT000</a> |
| 8.2       | $\pm 3\%$          | 14        | 500                                  | 4.0                        | 5.2       | 0.85             | 0.71             | 250                       | <a href="#">MLG0603P8N2HT000</a> |
| 8.2       | $\pm 5\%$          | 14        | 500                                  | 4.0                        | 5.2       | 0.85             | 0.71             | 250                       | <a href="#">MLG0603P8N2JT000</a> |
| 9.1       | $\pm 3\%$          | 14        | 500                                  | 4.0                        | 5.0       | 0.90             | 0.76             | 250                       | <a href="#">MLG0603P9N1HT000</a> |
| 9.1       | $\pm 5\%$          | 14        | 500                                  | 4.0                        | 5.0       | 0.90             | 0.76             | 250                       | <a href="#">MLG0603P9N1JT000</a> |
| 10.0      | $\pm 3\%$          | 14        | 500                                  | 4.0                        | 4.7       | 0.95             | 0.85             | 250                       | <a href="#">MLG0603P10NHT000</a> |
| 10.0      | $\pm 5\%$          | 14        | 500                                  | 4.0                        | 4.7       | 0.95             | 0.85             | 250                       | <a href="#">MLG0603P10NJT000</a> |
| 11.0      | $\pm 3\%$          | 14        | 500                                  | 3.5                        | 4.5       | 1.00             | 0.64             | 250                       | <a href="#">MLG0603P11NHT000</a> |
| 11.0      | $\pm 5\%$          | 14        | 500                                  | 3.5                        | 4.5       | 1.00             | 0.64             | 250                       | <a href="#">MLG0603P11NJT000</a> |

\* Please contact us for information on inductance tolerance, G ( $\pm 2\%$ ).

· Short bar residual inductance = 0.43nH

## Measurement equipment

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

\* Equivalent measurement equipment may be used.

## MLG0603P type

## ■ CHARACTERISTICS SPECIFICATION TABLE

| L    |           | Q    | L, Q measuring frequency | Self-resonant frequency |           | DC resistance |         | Rated current | Part No.*        |
|------|-----------|------|--------------------------|-------------------------|-----------|---------------|---------|---------------|------------------|
| (nH) | Tolerance | min. | (MHz)                    | (GHz)min.               | (GHz)typ. | (Ω)max.       | (Ω)typ. | (mA)max.      |                  |
| 12.0 | ±3%       | 14   | 500                      | 3.5                     | 4.3       | 1.10          | 0.82    | 250           | MLG0603P12NHT000 |
| 12.0 | ±5%       | 14   | 500                      | 3.5                     | 4.3       | 1.10          | 0.82    | 250           | MLG0603P12NJT000 |
| 13.0 | ±3%       | 14   | 500                      | 3.2                     | 4.2       | 1.10          | 0.87    | 250           | MLG0603P13NHT000 |
| 13.0 | ±5%       | 14   | 500                      | 3.2                     | 4.2       | 1.10          | 0.87    | 250           | MLG0603P13NJT000 |
| 15.0 | ±3%       | 14   | 500                      | 3.2                     | 3.7       | 1.20          | 0.94    | 250           | MLG0603P15NHT000 |
| 15.0 | ±5%       | 14   | 500                      | 3.2                     | 3.7       | 1.20          | 0.94    | 250           | MLG0603P15NJT000 |
| 16.0 | ±3%       | 14   | 500                      | 3.0                     | 3.6       | 1.20          | 1.00    | 200           | MLG0603P16NHT000 |
| 16.0 | ±5%       | 14   | 500                      | 3.0                     | 3.6       | 1.20          | 1.00    | 200           | MLG0603P16NJT000 |
| 18.0 | ±3%       | 14   | 500                      | 3.0                     | 3.5       | 1.40          | 1.04    | 200           | MLG0603P18NHT000 |
| 18.0 | ±5%       | 14   | 500                      | 3.0                     | 3.5       | 1.40          | 1.04    | 200           | MLG0603P18NJT000 |
| 20.0 | ±3%       | 14   | 500                      | 2.2                     | 3.3       | 1.90          | 1.33    | 150           | MLG0603P20NHT000 |
| 20.0 | ±5%       | 14   | 500                      | 2.2                     | 3.3       | 1.90          | 1.33    | 150           | MLG0603P20NJT000 |
| 22.0 | ±3%       | 14   | 500                      | 2.2                     | 2.9       | 1.90          | 1.31    | 150           | MLG0603P22NHT000 |
| 22.0 | ±5%       | 14   | 500                      | 2.2                     | 2.9       | 1.90          | 1.31    | 150           | MLG0603P22NJT000 |
| 24.0 | ±3%       | 14   | 500                      | 2.2                     | 2.9       | 2.10          | 1.17    | 140           | MLG0603P24NHT000 |
| 24.0 | ±5%       | 14   | 500                      | 2.2                     | 2.9       | 2.10          | 1.17    | 140           | MLG0603P24NJT000 |
| 27.0 | ±3%       | 14   | 500                      | 2.2                     | 2.7       | 2.10          | 1.45    | 140           | MLG0603P27NHT000 |
| 27.0 | ±5%       | 14   | 500                      | 2.2                     | 2.7       | 2.10          | 1.45    | 140           | MLG0603P27NJT000 |
| 30.0 | ±3%       | 10   | 500                      | 1.8                     | 2.3       | 2.20          | 1.37    | 130           | MLG0603P30NHT000 |
| 30.0 | ±5%       | 10   | 500                      | 1.8                     | 2.3       | 2.20          | 1.37    | 130           | MLG0603P30NJT000 |
| 33.0 | ±3%       | 10   | 300                      | 1.8                     | 2.4       | 2.20          | 1.55    | 130           | MLG0603P33NHT000 |
| 33.0 | ±5%       | 10   | 300                      | 1.8                     | 2.4       | 2.20          | 1.55    | 130           | MLG0603P33NJT000 |
| 36.0 | ±3%       | 10   | 300                      | 1.8                     | 2.2       | 2.40          | 1.49    | 120           | MLG0603P36NHT000 |
| 36.0 | ±5%       | 10   | 300                      | 1.8                     | 2.2       | 2.40          | 1.49    | 120           | MLG0603P36NJT000 |
| 39.0 | ±3%       | 10   | 300                      | 1.8                     | 2.2       | 2.40          | 1.72    | 120           | MLG0603P39NHT000 |
| 39.0 | ±5%       | 10   | 300                      | 1.8                     | 2.2       | 2.40          | 1.72    | 120           | MLG0603P39NJT000 |
| 43.0 | ±3%       | 10   | 300                      | 1.6                     | 2.0       | 2.90          | 1.61    | 110           | MLG0603P43NHT000 |
| 43.0 | ±5%       | 10   | 300                      | 1.6                     | 2.0       | 2.90          | 1.61    | 110           | MLG0603P43NJT000 |
| 47.0 | ±3%       | 10   | 300                      | 1.6                     | 2.0       | 2.90          | 2.18    | 110           | MLG0603P47NHT000 |
| 47.0 | ±5%       | 10   | 300                      | 1.6                     | 2.0       | 2.90          | 2.18    | 110           | MLG0603P47NJT000 |
| 51.0 | ±3%       | 10   | 300                      | 1.4                     | 1.9       | 3.50          | 1.87    | 100           | MLG0603P51NHT000 |
| 51.0 | ±5%       | 10   | 300                      | 1.4                     | 1.9       | 3.50          | 1.87    | 100           | MLG0603P51NJT000 |
| 56.0 | ±3%       | 10   | 300                      | 1.4                     | 1.8       | 3.50          | 2.35    | 100           | MLG0603P56NHT000 |
| 56.0 | ±5%       | 10   | 300                      | 1.4                     | 1.8       | 3.50          | 2.35    | 100           | MLG0603P56NJT000 |
| 62.0 | ±3%       | 10   | 300                      | 1.2                     | 1.6       | 3.50          | 2.12    | 100           | MLG0603P62NHT000 |
| 62.0 | ±5%       | 10   | 300                      | 1.2                     | 1.6       | 3.50          | 2.12    | 100           | MLG0603P62NJT000 |
| 68.0 | ±3%       | 9    | 300                      | 1.2                     | 1.6       | 3.50          | 2.69    | 100           | MLG0603P68NHT000 |
| 68.0 | ±5%       | 9    | 300                      | 1.2                     | 1.6       | 3.50          | 2.69    | 100           | MLG0603P68NJT000 |
| 75.0 | ±3%       | 9    | 300                      | 1.0                     | 1.5       | 4.00          | 2.59    | 80            | MLG0603P75NHT000 |
| 75.0 | ±5%       | 9    | 300                      | 1.0                     | 1.5       | 4.00          | 2.59    | 80            | MLG0603P75NJT000 |
| 82.0 | ±3%       | 9    | 300                      | 1.0                     | 1.5       | 4.00          | 2.71    | 80            | MLG0603P82NHT000 |
| 82.0 | ±5%       | 9    | 300                      | 1.0                     | 1.5       | 4.00          | 2.71    | 80            | MLG0603P82NJT000 |
| 91.0 | ±3%       | 9    | 300                      | 0.9                     | 1.3       | 4.50          | 2.92    | 80            | MLG0603P91NHT000 |
| 91.0 | ±5%       | 9    | 300                      | 0.9                     | 1.3       | 4.50          | 2.92    | 80            | MLG0603P91NJT000 |

\*Please contact us for information on inductance tolerance, G (±2%).

· Short bar residual inductance =0.43nH

## Measurement equipment

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

\* Equivalent measurement equipment may be used.

# MLG0603P type

## ■ CHARACTERISTICS SPECIFICATION TABLE

| L<br>(nH) | Tolerance | Q    | L, Q measuring<br>frequency<br>(MHz) | Self-resonant<br>frequency |           | DC resistance |         | Rated current<br>(mA)max. | Part No.*                        |
|-----------|-----------|------|--------------------------------------|----------------------------|-----------|---------------|---------|---------------------------|----------------------------------|
|           |           | min. |                                      | (GHz)min.                  | (GHz)typ. | (Ω)max.       | (Ω)typ. |                           |                                  |
| 100.0     | ±3%       | 9    | 300                                  | 0.9                        | 1.3       | 4.50          | 3.20    | 80                        | <a href="#">MLG0603PR10HT000</a> |
| 100.0     | ±5%       | 9    | 300                                  | 0.9                        | 1.3       | 4.50          | 3.20    | 80                        | <a href="#">MLG0603PR10JT000</a> |
| 110.0     | ±3%       | 9    | 300                                  | 0.8                        | 1.1       | 5.00          | 3.50    | 80                        | <a href="#">MLG0603PR11HT000</a> |
| 110.0     | ±5%       | 9    | 300                                  | 0.8                        | 1.1       | 5.00          | 3.50    | 80                        | <a href="#">MLG0603PR11JT000</a> |
| 120.0     | ±3%       | 9    | 300                                  | 0.8                        | 1.0       | 5.00          | 3.79    | 80                        | <a href="#">MLG0603PR12HT000</a> |
| 120.0     | ±5%       | 9    | 300                                  | 0.8                        | 1.0       | 5.00          | 3.79    | 80                        | <a href="#">MLG0603PR12JT000</a> |

\* Please contact us for information on inductance tolerance, G (±2%).

· Short bar residual inductance =0.43nH

### Measurement equipment

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

\* Equivalent measurement equipment may be used.

## MLG0603P type

## ■ 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 |                  |
| 0.6       | 0.6    | 0.6    | 0.6    | 0.6    | 16min. | 22min. | 35min. | 37min. | 41min. | MLG0603P0N6BT000 |
| 0.6       | 0.6    | 0.6    | 0.6    | 0.6    | 16min. | 22min. | 35min. | 37min. | 41min. | MLG0603P0N6CT000 |
| 0.7       | 0.7    | 0.7    | 0.7    | 0.7    | 16min. | 22min. | 35min. | 37min. | 41min. | MLG0603P0N7BT000 |
| 0.7       | 0.7    | 0.7    | 0.7    | 0.7    | 16min. | 22min. | 35min. | 37min. | 41min. | MLG0603P0N7CT000 |
| 0.8       | 0.8    | 0.8    | 0.8    | 0.4    | 16     | 22     | 35     | 37     | 41     | MLG0603P0N8BT000 |
| 0.8       | 0.8    | 0.8    | 0.8    | 0.4    | 16     | 22     | 35     | 37     | 41     | MLG0603P0N8CT000 |
| 0.9       | 0.9    | 0.9    | 0.9    | 0.9    | 17     | 22     | 35     | 37     | 41     | MLG0603P0N9BT000 |
| 0.9       | 0.9    | 0.9    | 0.9    | 0.9    | 17     | 22     | 35     | 37     | 41     | MLG0603P0N9CT000 |
| 1.0       | 1.0    | 1.0    | 1.0    | 1.0    | 16     | 21     | 33     | 36     | 40     | MLG0603P1N0BT000 |
| 1.0       | 1.0    | 1.0    | 1.0    | 1.0    | 16     | 21     | 33     | 36     | 40     | MLG0603P1N0CT000 |
| 1.0       | 1.0    | 1.0    | 1.0    | 1.0    | 16     | 21     | 33     | 36     | 40     | MLG0603P1N0ST000 |
| 1.1       | 1.1    | 1.1    | 1.1    | 1.1    | 17     | 23     | 36     | 38     | 43     | MLG0603P1N1BT000 |
| 1.1       | 1.1    | 1.1    | 1.1    | 1.1    | 17     | 23     | 36     | 38     | 43     | MLG0603P1N1CT000 |
| 1.1       | 1.1    | 1.1    | 1.1    | 1.1    | 17     | 23     | 36     | 38     | 43     | MLG0603P1N1ST000 |
| 1.2       | 1.2    | 1.2    | 1.2    | 1.2    | 18     | 24     | 38     | 40     | 45     | MLG0603P1N2BT000 |
| 1.2       | 1.2    | 1.2    | 1.2    | 1.2    | 18     | 24     | 38     | 40     | 45     | MLG0603P1N2CT000 |
| 1.2       | 1.2    | 1.2    | 1.2    | 1.2    | 18     | 24     | 38     | 40     | 45     | MLG0603P1N2ST000 |
| 1.3       | 1.3    | 1.3    | 1.3    | 1.3    | 17     | 22     | 34     | 36     | 40     | MLG0603P1N3BT000 |
| 1.3       | 1.3    | 1.3    | 1.3    | 1.3    | 17     | 22     | 34     | 36     | 40     | MLG0603P1N3CT000 |
| 1.3       | 1.3    | 1.3    | 1.3    | 1.3    | 17     | 22     | 34     | 36     | 40     | MLG0603P1N3ST000 |
| 1.4       | 1.4    | 1.4    | 1.4    | 1.4    | 18     | 23     | 36     | 39     | 43     | MLG0603P1N4BT000 |
| 1.4       | 1.4    | 1.4    | 1.4    | 1.4    | 18     | 23     | 36     | 39     | 43     | MLG0603P1N4CT000 |
| 1.4       | 1.4    | 1.4    | 1.4    | 1.4    | 18     | 23     | 36     | 39     | 43     | MLG0603P1N4ST000 |
| 1.5       | 1.5    | 1.5    | 1.5    | 1.5    | 17     | 22     | 33     | 35     | 39     | MLG0603P1N5BT000 |
| 1.5       | 1.5    | 1.5    | 1.5    | 1.5    | 17     | 22     | 33     | 35     | 39     | MLG0603P1N5CT000 |
| 1.5       | 1.5    | 1.5    | 1.5    | 1.5    | 17     | 22     | 33     | 35     | 39     | MLG0603P1N5ST000 |
| 1.6       | 1.6    | 1.6    | 1.6    | 1.6    | 17     | 22     | 33     | 35     | 38     | MLG0603P1N6BT000 |
| 1.6       | 1.6    | 1.6    | 1.6    | 1.6    | 17     | 22     | 33     | 35     | 38     | MLG0603P1N6CT000 |
| 1.6       | 1.6    | 1.6    | 1.6    | 1.6    | 17     | 22     | 33     | 35     | 38     | MLG0603P1N6ST000 |
| 1.7       | 1.7    | 1.7    | 1.7    | 1.7    | 17     | 22     | 33     | 35     | 39     | MLG0603P1N7BT000 |
| 1.7       | 1.7    | 1.7    | 1.7    | 1.7    | 17     | 22     | 33     | 35     | 39     | MLG0603P1N7CT000 |
| 1.7       | 1.7    | 1.7    | 1.7    | 1.7    | 17     | 22     | 33     | 35     | 39     | MLG0603P1N7ST000 |
| 1.8       | 1.8    | 1.8    | 1.8    | 1.8    | 17     | 22     | 34     | 35     | 39     | MLG0603P1N8BT000 |
| 1.8       | 1.8    | 1.8    | 1.8    | 1.8    | 17     | 22     | 34     | 35     | 39     | MLG0603P1N8CT000 |
| 1.8       | 1.8    | 1.8    | 1.8    | 1.8    | 17     | 22     | 34     | 35     | 39     | MLG0603P1N8ST000 |
| 1.9       | 1.9    | 1.9    | 1.9    | 1.9    | 18     | 24     | 36     | 38     | 42     | MLG0603P1N9BT000 |
| 1.9       | 1.9    | 1.9    | 1.9    | 1.9    | 18     | 24     | 36     | 38     | 42     | MLG0603P1N9CT000 |
| 1.9       | 1.9    | 1.9    | 1.9    | 1.9    | 18     | 24     | 36     | 38     | 42     | MLG0603P1N9ST000 |
| 2.0       | 2      | 2.0    | 2.0    | 2.0    | 19     | 23     | 35     | 37     | 41     | MLG0603P2N0BT000 |
| 2.0       | 2      | 2.0    | 2.0    | 2.0    | 19     | 23     | 35     | 37     | 41     | MLG0603P2N0CT000 |
| 2.0       | 2      | 2.0    | 2.0    | 2.0    | 19     | 23     | 35     | 37     | 41     | MLG0603P2N0ST000 |
| 2.1       | 2.1    | 2.1    | 2.1    | 2.1    | 18     | 23     | 34     | 36     | 39     | MLG0603P2N1BT000 |
| 2.1       | 2.1    | 2.1    | 2.1    | 2.1    | 18     | 23     | 34     | 36     | 39     | MLG0603P2N1CT000 |
| 2.1       | 2.1    | 2.1    | 2.1    | 2.1    | 18     | 23     | 34     | 36     | 39     | MLG0603P2N1ST000 |
| 2.2       | 2.2    | 2.2    | 2.2    | 2.3    | 18     | 23     | 35     | 36     | 40     | MLG0603P2N2BT000 |
| 2.2       | 2.2    | 2.2    | 2.2    | 2.3    | 18     | 23     | 35     | 36     | 40     | MLG0603P2N2CT000 |
| 2.2       | 2.2    | 2.2    | 2.2    | 2.3    | 18     | 23     | 35     | 36     | 40     | MLG0603P2N2ST000 |
| 2.3       | 2.3    | 2.3    | 2.4    | 2.4    | 18     | 22     | 33     | 35     | 38     | MLG0603P2N3BT000 |
| 2.3       | 2.3    | 2.3    | 2.4    | 2.4    | 18     | 22     | 33     | 35     | 38     | MLG0603P2N3CT000 |
| 2.3       | 2.3    | 2.3    | 2.4    | 2.4    | 18     | 22     | 33     | 35     | 38     | MLG0603P2N3ST000 |

\* Please contact us for information on inductance tolerance, G ( $\pm 2\%$ ).

## Measurement equipment

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

\* Equivalent measurement equipment may be used.

## MLG0603P type

## ■ 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 |                  |
| 2.4       | 2.4    | 2.4    | 2.4    | 2.4    | 16     | 21     | 31     | 33     | 36     | MLG0603P2N4BT000 |
| 2.4       | 2.4    | 2.4    | 2.4    | 2.4    | 16     | 21     | 31     | 33     | 36     | MLG0603P2N4ST000 |
| 2.5       | 2.5    | 2.5    | 2.5    | 2.5    | 17     | 22     | 33     | 34     | 38     | MLG0603P2N5BT000 |
| 2.5       | 2.5    | 2.5    | 2.5    | 2.5    | 17     | 22     | 33     | 34     | 38     | MLG0603P2N5CT000 |
| 2.5       | 2.5    | 2.5    | 2.5    | 2.5    | 17     | 22     | 33     | 34     | 38     | MLG0603P2N5ST000 |
| 2.6       | 2.6    | 2.6    | 2.6    | 2.6    | 17     | 22     | 33     | 35     | 38     | MLG0603P2N6BT000 |
| 2.6       | 2.6    | 2.6    | 2.6    | 2.6    | 17     | 22     | 33     | 35     | 38     | MLG0603P2N6CT000 |
| 2.6       | 2.6    | 2.6    | 2.6    | 2.6    | 17     | 22     | 33     | 35     | 38     | MLG0603P2N6ST000 |
| 2.7       | 2.7    | 2.7    | 2.7    | 2.7    | 17     | 21     | 33     | 35     | 38     | MLG0603P2N7BT000 |
| 2.7       | 2.7    | 2.7    | 2.7    | 2.7    | 17     | 21     | 33     | 35     | 38     | MLG0603P2N7CT000 |
| 2.7       | 2.7    | 2.7    | 2.7    | 2.7    | 17     | 21     | 33     | 35     | 38     | MLG0603P2N7ST000 |
| 2.8       | 2.8    | 2.8    | 2.8    | 2.9    | 17     | 22     | 34     | 36     | 40     | MLG0603P2N8BT000 |
| 2.8       | 2.8    | 2.8    | 2.8    | 2.9    | 17     | 22     | 34     | 36     | 40     | MLG0603P2N8CT000 |
| 2.8       | 2.8    | 2.8    | 2.8    | 2.9    | 17     | 22     | 34     | 36     | 40     | MLG0603P2N8ST000 |
| 2.9       | 2.9    | 2.9    | 2.9    | 3.0    | 17     | 22     | 34     | 35     | 39     | MLG0603P2N9BT000 |
| 2.9       | 2.9    | 2.9    | 2.9    | 3.0    | 17     | 22     | 34     | 35     | 39     | MLG0603P2N9CT000 |
| 2.9       | 2.9    | 2.9    | 2.9    | 3.0    | 17     | 22     | 34     | 35     | 39     | MLG0603P2N9ST000 |
| 3.0       | 3      | 3.0    | 3.1    | 3.1    | 17     | 21     | 32     | 34     | 37     | MLG0603P3N0BT000 |
| 3.0       | 3      | 3.0    | 3.1    | 3.1    | 17     | 21     | 32     | 34     | 37     | MLG0603P3N0CT000 |
| 3.0       | 3      | 3.0    | 3.1    | 3.1    | 17     | 21     | 32     | 34     | 37     | MLG0603P3N0ST000 |
| 3.1       | 3.1    | 3.1    | 3.2    | 3.2    | 17     | 22     | 33     | 34     | 37     | MLG0603P3N1BT000 |
| 3.1       | 3.1    | 3.1    | 3.2    | 3.2    | 17     | 22     | 33     | 34     | 37     | MLG0603P3N1CT000 |
| 3.1       | 3.1    | 3.1    | 3.2    | 3.2    | 17     | 22     | 33     | 34     | 37     | MLG0603P3N1ST000 |
| 3.2       | 3.2    | 3.2    | 3.3    | 3.3    | 17     | 22     | 34     | 35     | 38     | MLG0603P3N2BT000 |
| 3.2       | 3.2    | 3.2    | 3.3    | 3.3    | 17     | 22     | 34     | 35     | 38     | MLG0603P3N2CT000 |
| 3.2       | 3.2    | 3.2    | 3.3    | 3.3    | 17     | 22     | 34     | 35     | 38     | MLG0603P3N2ST000 |
| 3.3       | 3.3    | 3.4    | 3.4    | 3.4    | 18     | 22     | 33     | 35     | 38     | MLG0603P3N3BT000 |
| 3.3       | 3.3    | 3.4    | 3.4    | 3.4    | 18     | 22     | 33     | 35     | 38     | MLG0603P3N3CT000 |
| 3.3       | 3.3    | 3.4    | 3.4    | 3.4    | 18     | 22     | 33     | 35     | 38     | MLG0603P3N3ST000 |
| 3.4       | 3.4    | 3.5    | 3.5    | 3.6    | 18     | 23     | 34     | 35     | 38     | MLG0603P3N4BT000 |
| 3.4       | 3.4    | 3.5    | 3.5    | 3.6    | 18     | 23     | 34     | 35     | 38     | MLG0603P3N4CT000 |
| 3.4       | 3.4    | 3.5    | 3.5    | 3.6    | 18     | 23     | 34     | 35     | 38     | MLG0603P3N4ST000 |
| 3.5       | 3.5    | 3.6    | 3.6    | 3.7    | 18     | 23     | 34     | 35     | 38     | MLG0603P3N5BT000 |
| 3.5       | 3.5    | 3.6    | 3.6    | 3.7    | 18     | 23     | 34     | 35     | 38     | MLG0603P3N5CT000 |
| 3.5       | 3.5    | 3.6    | 3.6    | 3.7    | 18     | 23     | 34     | 35     | 38     | MLG0603P3N5ST000 |
| 3.6       | 3.6    | 3.7    | 3.7    | 3.8    | 18     | 22     | 33     | 34     | 37     | MLG0603P3N6BT000 |
| 3.6       | 3.6    | 3.7    | 3.7    | 3.8    | 18     | 22     | 33     | 34     | 37     | MLG0603P3N6CT000 |
| 3.6       | 3.6    | 3.7    | 3.7    | 3.8    | 18     | 22     | 33     | 34     | 37     | MLG0603P3N6ST000 |
| 3.7       | 3.7    | 3.8    | 3.9    | 4.0    | 18     | 23     | 34     | 35     | 37     | MLG0603P3N7BT000 |
| 3.7       | 3.7    | 3.8    | 3.9    | 4.0    | 18.0   | 23     | 34     | 35     | 37     | MLG0603P3N7CT000 |
| 3.7       | 3.7    | 3.8    | 3.9    | 4.0    | 18.0   | 23     | 34     | 35     | 37     | MLG0603P3N7ST000 |
| 3.8       | 3.8    | 3.9    | 4.0    | 4.1    | 17.0   | 22     | 32     | 33     | 36     | MLG0603P3N8BT000 |
| 3.8       | 3.8    | 3.9    | 4.0    | 4.1    | 17.0   | 22     | 32     | 33     | 36     | MLG0603P3N8CT000 |
| 3.8       | 3.8    | 3.9    | 4.0    | 4.1    | 17.0   | 22     | 32     | 33     | 36     | MLG0603P3N8ST000 |
| 3.9       | 3.9    | 4.0    | 4.1    | 4.2    | 17.0   | 22     | 32     | 34     | 36     | MLG0603P3N9BT000 |
| 3.9       | 3.9    | 4.0    | 4.1    | 4.2    | 17.0   | 22     | 32     | 34     | 36     | MLG0603P3N9CT000 |
| 3.9       | 3.9    | 4.0    | 4.1    | 4.2    | 17.0   | 22     | 32     | 34     | 36     | MLG0603P3N9ST000 |
| 4.0       | 4.0    | 4.1    | 4.2    | 4.4    | 18.0   | 22     | 32     | 33     | 36     | MLG0603P4N0BT000 |
| 4.0       | 4.0    | 4.1    | 4.2    | 4.4    | 18.0   | 22     | 32     | 33     | 36     | MLG0603P4N0CT000 |
| 4.0       | 4.0    | 4.1    | 4.2    | 4.4    | 18.0   | 22     | 32     | 33     | 36     | MLG0603P4N0ST000 |

\* Please contact us for information on inductance tolerance, G ( $\pm 2\%$ ).

## Measurement equipment

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

\* Equivalent measurement equipment may be used.

## MLG0603P type

## ■ 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 |                  |
| 4.1       | 4.1    | 4.3    | 4.3    | 4.5    | 18.0   | 22     | 33     | 34     | 36     | MLG0603P4N1BT000 |
| 4.1       | 4.1    | 4.3    | 4.3    | 4.5    | 18.0   | 22     | 33     | 34     | 36     | MLG0603P4N1CT000 |
| 4.1       | 4.1    | 4.3    | 4.3    | 4.5    | 18.0   | 22     | 33     | 34     | 36     | MLG0603P4N1ST000 |
| 4.2       | 4.2    | 4.4    | 4.5    | 4.6    | 18.0   | 22     | 32     | 33     | 35     | MLG0603P4N2BT000 |
| 4.2       | 4.2    | 4.4    | 4.5    | 4.6    | 18.0   | 22     | 32     | 33     | 35     | MLG0603P4N2CT000 |
| 4.2       | 4.2    | 4.4    | 4.5    | 4.6    | 18     | 22     | 32     | 33     | 35     | MLG0603P4N2ST000 |
| 4.3       | 4.3    | 4.5    | 4.5    | 4.7    | 17     | 21     | 32     | 33     | 35     | MLG0603P4N3ST000 |
| 4.3       | 4.3    | 4.5    | 4.5    | 4.7    | 17     | 21     | 32     | 33     | 35     | MLG0603P4N3HT000 |
| 4.3       | 4.3    | 4.5    | 4.5    | 4.7    | 17     | 21     | 32     | 33     | 35     | MLG0603P4N3JT000 |
| 4.7       | 4.7    | 4.9    | 5.0    | 5.1    | 16     | 21     | 31     | 32     | 34     | MLG0603P4N7ST000 |
| 4.7       | 4.7    | 4.9    | 5.0    | 5.1    | 16     | 21     | 31     | 32     | 34     | MLG0603P4N7HT000 |
| 4.7       | 4.7    | 4.9    | 5.0    | 5.1    | 16     | 21     | 31     | 32     | 34     | MLG0603P4N7JT000 |
| 5.1       | 5.1    | 5.3    | 5.4    | 5.7    | 16     | 21     | 31     | 32     | 34     | MLG0603P5N1ST000 |
| 5.1       | 5.1    | 5.3    | 5.4    | 5.7    | 16     | 21     | 31     | 32     | 34     | MLG0603P5N1HT000 |
| 5.1       | 5.1    | 5.3    | 5.4    | 5.7    | 16     | 21     | 31     | 32     | 34     | MLG0603P5N1JT000 |
| 5.6       | 5.6    | 6.1    | 6.2    | 6.6    | 18     | 22     | 31     | 32     | 32     | MLG0603P5N6ST000 |
| 5.6       | 5.6    | 6.1    | 6.2    | 6.6    | 18     | 22     | 31     | 32     | 32     | MLG0603P5N6HT000 |
| 5.6       | 5.6    | 6.1    | 6.2    | 6.6    | 18     | 22     | 31     | 32     | 32     | MLG0603P5N6JT000 |
| 6.2       | 6.2    | 6.5    | 6.7    | 7.0    | 16     | 21     | 30     | 31     | 33     | MLG0603P6N2ST000 |
| 6.2       | 6.2    | 6.5    | 6.7    | 7.0    | 16     | 21     | 30     | 31     | 33     | MLG0603P6N2HT000 |
| 6.2       | 6.2    | 6.5    | 6.7    | 7.0    | 16     | 21     | 30     | 31     | 33     | MLG0603P6N2JT000 |
| 6.8       | 6.8    | 7.3    | 7.5    | 8.0    | 16     | 21     | 29     | 30     | 31     | MLG0603P6N8HT000 |
| 6.8       | 6.8    | 7.3    | 7.5    | 8.0    | 16     | 21     | 29     | 30     | 31     | MLG0603P6N8JT000 |
| 7.5       | 7.5    | 8.1    | 8.3    | 8.8    | 16     | 21     | 30     | 30     | 32     | MLG0603P7N5HT000 |
| 7.5       | 7.5    | 8.1    | 8.3    | 8.8    | 16     | 21     | 30     | 30     | 32     | MLG0603P7N5JT000 |
| 8.2       | 8.2    | 9.0    | 9.3    | 10.0   | 17     | 21     | 30     | 30     | 31     | MLG0603P8N2HT000 |
| 8.2       | 8.2    | 9.0    | 9.3    | 10.0   | 17     | 21     | 30     | 30     | 31     | MLG0603P8N2JT000 |
| 9.1       | 9.1    | 10.0   | 10.3   | 11.1   | 17     | 21     | 30     | 31     | 32     | MLG0603P9N1HT000 |
| 9.1       | 9.1    | 10.0   | 10.3   | 11.1   | 17     | 21     | 30     | 31     | 32     | MLG0603P9N1JT000 |
| 10        | 10     | 11     | 12     | 13     | 16     | 21     | 28     | 28     | 28     | MLG0603P10NHT000 |
| 10        | 10     | 11     | 12     | 13     | 16     | 21     | 28     | 28     | 28     | MLG0603P10NJT000 |
| 11        | 11     | 13     | 13     | 15     | 18     | 23     | 30     | 30     | 30     | MLG0603P11NHT000 |
| 11        | 11     | 13     | 13     | 15     | 18     | 23     | 30     | 30     | 30     | MLG0603P11NJT000 |
| 12        | 12     | 14     | 15     | 17     | 18     | 22     | 28     | 28     | 27     | MLG0603P12NHT000 |
| 12        | 12     | 14     | 15     | 17     | 18     | 22     | 28     | 28     | 27     | MLG0603P12NJT000 |
| 13        | 13     | 15     | 16     | 19     | 18     | 22     | 28     | 28     | 26     | MLG0603P13NHT000 |
| 13        | 13     | 15     | 16     | 19     | 18     | 22     | 28     | 28     | 26     | MLG0603P13NJT000 |
| 15        | 15     | 18     | 20     | 24     | 18     | 22     | 27     | 26     | 24     | MLG0603P15NHT000 |
| 15        | 15     | 18     | 20     | 24     | 18     | 22     | 27     | 26     | 24     | MLG0603P15NJT000 |
| 16        | 16     | 20     | 22     | 27     | 18     | 22     | 26     | 25     | 22     | MLG0603P16NHT000 |
| 16        | 16     | 20     | 22     | 27     | 18     | 22     | 26     | 25     | 22     | MLG0603P16NJT000 |
| 18        | 18     | 23     | 26     | 33     | 18     | 22     | 25     | 24     | 20     | MLG0603P18NHT000 |
| 18        | 18     | 23     | 26     | 33     | 18     | 22     | 25     | 24     | 20     | MLG0603P18NJT000 |
| 20        | 21     | 27     | 31     | 42     | 18     | 22     | 23     | 22     | 17     | MLG0603P20NHT000 |
| 20        | 21     | 27     | 31     | 42     | 18     | 22     | 23     | 22     | 17     | MLG0603P20NJT000 |
| 22        | 23     | 34     | 40     | 68     | 18     | 21     | 21     | 18     | 11     | MLG0603P22NHT000 |
| 22        | 23     | 34     | 40     | 68     | 18     | 21     | 21     | 18     | 11     | MLG0603P22NJT000 |
| 24        | 25     | 36     | 43     | 72     | 19     | 22     | 21     | 18     | 11     | MLG0603P24NHT000 |
| 24        | 25     | 36     | 43     | 72     | 19     | 22     | 21     | 18     | 11     | MLG0603P24NJT000 |
| 27        | 28     | 45     | 57     |        | 18     | 21     | 18     | 15     |        | MLG0603P27NHT000 |
| 27        | 28     | 45     | 57     |        | 18     | 21     | 18     | 15     |        | MLG0603P27NJT000 |

\* Please contact us for information on inductance tolerance, G ( $\pm 2\%$ ).

## Measurement equipment

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

\* Equivalent measurement equipment may be used.

## MLG0603P type

## ■ 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 |                                  |
| 30        | 32     | 59     |        |        | 18     | 21     | 15     |        |        | <a href="#">MLG0603P30NHT000</a> |
| 30        | 32     | 59     |        |        | 18     | 21     | 15     |        |        | <a href="#">MLG0603P30NJT000</a> |
| 33        | 36     | 68     |        |        | 15     | 17     | 11     |        |        | <a href="#">MLG0603P33NHT000</a> |
| 33        | 36     | 68     |        |        | 15     | 17     | 11     |        |        | <a href="#">MLG0603P33NJT000</a> |
| 37        | 39     |        |        |        | 16     | 17     |        |        |        | <a href="#">MLG0603P36NHT000</a> |
| 37        | 39     |        |        |        | 16     | 17     |        |        |        | <a href="#">MLG0603P36NJT000</a> |
| 40        | 43     |        |        |        | 15     | 17     |        |        |        | <a href="#">MLG0603P39NHT000</a> |
| 40        | 43     |        |        |        | 15     | 17     |        |        |        | <a href="#">MLG0603P39NJT000</a> |
| 44        | 48     |        |        |        | 15     | 16     |        |        |        | <a href="#">MLG0603P43NHT000</a> |
| 44        | 48     |        |        |        | 15     | 16     |        |        |        | <a href="#">MLG0603P43NJT000</a> |
| 48        | 53     |        |        |        | 15     | 16     |        |        |        | <a href="#">MLG0603P47NHT000</a> |
| 48        | 53     |        |        |        | 15     | 16     |        |        |        | <a href="#">MLG0603P47NJT000</a> |
| 53        | 59     |        |        |        | 15     | 16     |        |        |        | <a href="#">MLG0603P51NHT000</a> |
| 53        | 59     |        |        |        | 15     | 16     |        |        |        | <a href="#">MLG0603P51NJT000</a> |
| 58        | 66     |        |        |        | 15     | 15     |        |        |        | <a href="#">MLG0603P56NHT000</a> |
| 58        | 66     |        |        |        | 15     | 15     |        |        |        | <a href="#">MLG0603P56NJT000</a> |
| 65        | 76     |        |        |        | 15     | 15     |        |        |        | <a href="#">MLG0603P62NHT000</a> |
| 65        | 76     |        |        |        | 15     | 15     |        |        |        | <a href="#">MLG0603P62NJT000</a> |
| 71        | 82     |        |        |        | 15     | 15     |        |        |        | <a href="#">MLG0603P68NHT000</a> |
| 71        | 82     |        |        |        | 15     | 15     |        |        |        | <a href="#">MLG0603P68NJT000</a> |
| 79        | 97     |        |        |        | 14     | 13     |        |        |        | <a href="#">MLG0603P75NHT000</a> |
| 79        | 97     |        |        |        | 14     | 13     |        |        |        | <a href="#">MLG0603P75NJT000</a> |
| 87        | 109    |        |        |        | 14     | 13     |        |        |        | <a href="#">MLG0603P82NHT000</a> |
| 87        | 109    |        |        |        | 14     | 13     |        |        |        | <a href="#">MLG0603P82NJT000</a> |
| 99        | 132    |        |        |        | 13     | 12     |        |        |        | <a href="#">MLG0603P91NHT000</a> |
| 99        | 132    |        |        |        | 13     | 12     |        |        |        | <a href="#">MLG0603P91NJT000</a> |
| 110       | 152    |        |        |        | 14     | 12     |        |        |        | <a href="#">MLG0603PR10HT000</a> |
| 110       | 152    |        |        |        | 14     | 12     |        |        |        | <a href="#">MLG0603PR10JT000</a> |
| 126       | 211    |        |        |        | 13     | 9      |        |        |        | <a href="#">MLG0603PR11HT000</a> |
| 126       | 211    |        |        |        | 13     | 9      |        |        |        | <a href="#">MLG0603PR11JT000</a> |
| 151       |        |        |        |        | 12     |        |        |        |        | <a href="#">MLG0603PR12HT000</a> |
| 151       |        |        |        |        | 12     |        |        |        |        | <a href="#">MLG0603PR12JT000</a> |

\*Please contact us for information on inductance tolerance, G ( $\pm 2\%$ ).

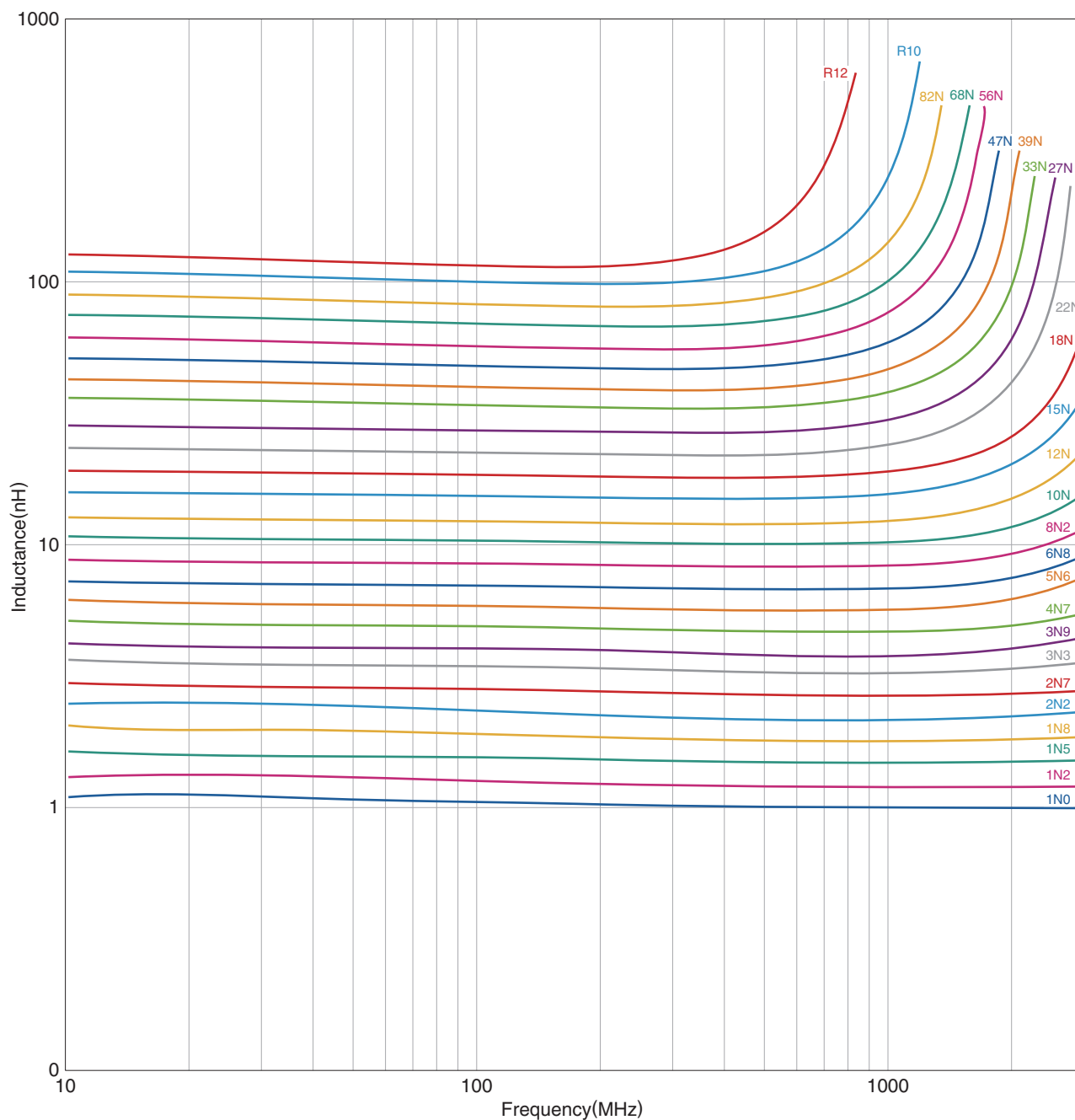
## Measurement equipment

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

\* Equivalent measurement equipment may be used.

# MLG0603P type

## L FREQUENCY CHARACTERISTICS (EXAMPLE)



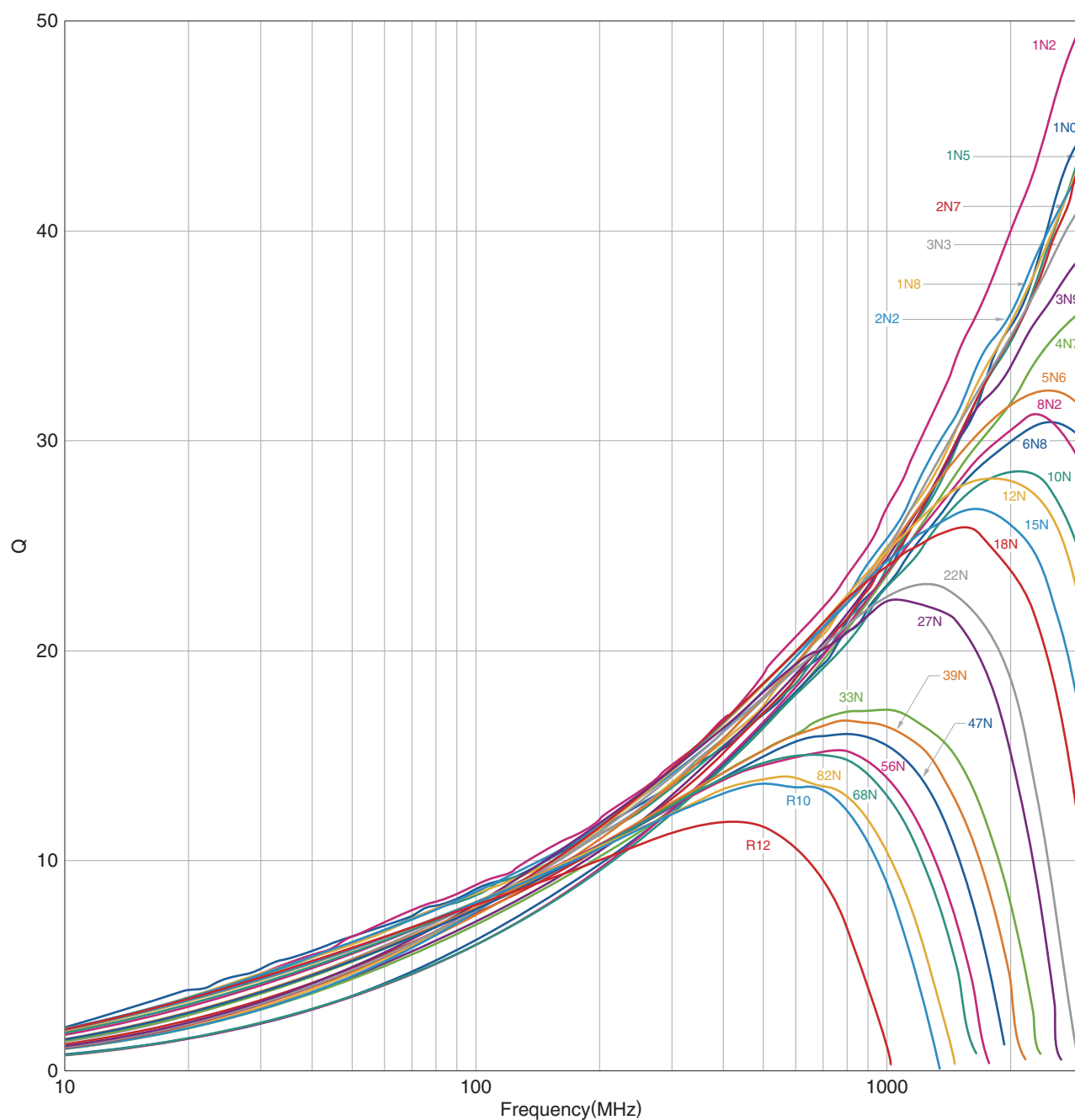
Measurement equipment

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

\* Equivalent measurement equipment may be used.

# MLG0603P type

## Q FREQUENCY CHARACTERISTICS (EXAMPLE)



Measurement equipment

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

\* Equivalent measurement equipment may be used.



## 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 this products.

#### REMINDERS

- The storage period is within 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.

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