

Inductors for high frequency circuits  
Multilayer ceramic  
MHQ-P series



## MHQ0603P type



### FEATURES

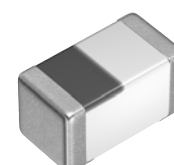
- Unique ceramic material and configuration allows for the realization of high Q characteristics that are equivalent to that of air core wound inductors.
- Multilayer method allows for a lineup with fine increments of inductance.
- Operating temperature range: -55 to +125°C

### APPLICATION

- Smart phones, tablet terminals, high frequency modules, Bluetooth, W-LAN, UWB, tuners and other high frequency circuits for the mobile communication industry
- Application guides: [Smart phones/tablets](#)

### PART NUMBER CONSTRUCTION

|             |                                       |                 |                    |                         |                 |               |
|-------------|---------------------------------------|-----------------|--------------------|-------------------------|-----------------|---------------|
| MHQ         | 0603                                  | P               | 0N6                | B                       | T               | 000           |
| Series name | LxWxH dimensions<br>0.65x0.35x0.35 mm | Characteristics | Inductance<br>(nH) | Inductance<br>tolerance | Packaging style | Internal code |



# MHQ0603P type

## CHARACTERISTICS SPECIFICATION TABLE

| L<br>(nH) | Tolerance    | L measuring<br>frequency<br>(MHz) | Q<br>min. | 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       | $\pm 0.1$ nH | 500                               | —         | 500                               | 10.0                       | 20.0      | 0.07             | 0.02             | 1000                      | <a href="#">MHQ0603P0N6BT000</a> |
| 0.6       | $\pm 0.2$ nH | 500                               | —         | 500                               | 10.0                       | 20.0      | 0.07             | 0.02             | 1000                      | <a href="#">MHQ0603P0N6CT000</a> |
| 0.7       | $\pm 0.1$ nH | 500                               | —         | 500                               | 10.0                       | 20.0      | 0.07             | 0.02             | 1000                      | <a href="#">MHQ0603P0N7BT000</a> |
| 0.7       | $\pm 0.2$ nH | 500                               | —         | 500                               | 10.0                       | 20.0      | 0.07             | 0.02             | 1000                      | <a href="#">MHQ0603P0N7CT000</a> |
| 0.8       | $\pm 0.1$ nH | 500                               | —         | 500                               | 10.0                       | 20.0      | 0.07             | 0.02             | 1000                      | <a href="#">MHQ0603P0N8BT000</a> |
| 0.8       | $\pm 0.2$ nH | 500                               | —         | 500                               | 10.0                       | 20.0      | 0.07             | 0.02             | 1000                      | <a href="#">MHQ0603P0N8CT000</a> |
| 0.9       | $\pm 0.1$ nH | 500                               | —         | 500                               | 10.0                       | 18.8      | 0.07             | 0.02             | 1000                      | <a href="#">MHQ0603P0N9BT000</a> |
| 0.9       | $\pm 0.2$ nH | 500                               | —         | 500                               | 10.0                       | 18.8      | 0.07             | 0.02             | 1000                      | <a href="#">MHQ0603P0N9CT000</a> |
| 1.0       | $\pm 0.1$ nH | 500                               | —         | 500                               | 10.0                       | 19.3      | 0.07             | 0.03             | 1000                      | <a href="#">MHQ0603P1N0BT000</a> |
| 1.0       | $\pm 0.2$ nH | 500                               | —         | 500                               | 10.0                       | 19.3      | 0.07             | 0.03             | 1000                      | <a href="#">MHQ0603P1N0CT000</a> |
| 1.0       | $\pm 0.3$ nH | 500                               | —         | 500                               | 10.0                       | 19.3      | 0.07             | 0.03             | 1000                      | <a href="#">MHQ0603P1N0ST000</a> |
| 1.1       | $\pm 0.1$ nH | 500                               | —         | 500                               | 10.0                       | 19.3      | 0.07             | 0.03             | 1000                      | <a href="#">MHQ0603P1N1BT000</a> |
| 1.1       | $\pm 0.2$ nH | 500                               | —         | 500                               | 10.0                       | 19.3      | 0.07             | 0.03             | 1000                      | <a href="#">MHQ0603P1N1CT000</a> |
| 1.1       | $\pm 0.3$ nH | 500                               | —         | 500                               | 10.0                       | 19.3      | 0.07             | 0.03             | 1000                      | <a href="#">MHQ0603P1N1ST000</a> |
| 1.2       | $\pm 0.1$ nH | 500                               | —         | 500                               | 10.0                       | 20.0      | 0.08             | 0.04             | 1000                      | <a href="#">MHQ0603P1N2BT000</a> |
| 1.2       | $\pm 0.2$ nH | 500                               | —         | 500                               | 10.0                       | 20.0      | 0.08             | 0.04             | 1000                      | <a href="#">MHQ0603P1N2CT000</a> |
| 1.2       | $\pm 0.3$ nH | 500                               | —         | 500                               | 10.0                       | 20.0      | 0.08             | 0.04             | 1000                      | <a href="#">MHQ0603P1N2ST000</a> |
| 1.3       | $\pm 0.1$ nH | 500                               | —         | 500                               | 10.0                       | 20.0      | 0.10             | 0.06             | 800                       | <a href="#">MHQ0603P1N3BT000</a> |
| 1.3       | $\pm 0.2$ nH | 500                               | —         | 500                               | 10.0                       | 20.0      | 0.10             | 0.06             | 800                       | <a href="#">MHQ0603P1N3CT000</a> |
| 1.3       | $\pm 0.3$ nH | 500                               | —         | 500                               | 10.0                       | 20.0      | 0.10             | 0.06             | 800                       | <a href="#">MHQ0603P1N3ST000</a> |
| 1.4       | $\pm 0.1$ nH | 500                               | —         | 500                               | 10.0                       | 18.6      | 0.10             | 0.06             | 800                       | <a href="#">MHQ0603P1N4BT000</a> |
| 1.4       | $\pm 0.2$ nH | 500                               | —         | 500                               | 10.0                       | 18.6      | 0.10             | 0.06             | 800                       | <a href="#">MHQ0603P1N4CT000</a> |
| 1.4       | $\pm 0.3$ nH | 500                               | —         | 500                               | 10.0                       | 18.6      | 0.10             | 0.06             | 800                       | <a href="#">MHQ0603P1N4ST000</a> |
| 1.5       | $\pm 0.1$ nH | 500                               | 16        | 500                               | 10.0                       | 19.5      | 0.10             | 0.05             | 800                       | <a href="#">MHQ0603P1N5BT000</a> |
| 1.5       | $\pm 0.2$ nH | 500                               | 16        | 500                               | 10.0                       | 19.5      | 0.10             | 0.05             | 800                       | <a href="#">MHQ0603P1N5CT000</a> |
| 1.5       | $\pm 0.3$ nH | 500                               | 16        | 500                               | 10.0                       | 19.5      | 0.10             | 0.05             | 800                       | <a href="#">MHQ0603P1N5ST000</a> |
| 1.6       | $\pm 0.1$ nH | 500                               | 16        | 500                               | 10.0                       | 17.5      | 0.10             | 0.06             | 800                       | <a href="#">MHQ0603P1N6BT000</a> |
| 1.6       | $\pm 0.2$ nH | 500                               | 16        | 500                               | 10.0                       | 17.5      | 0.10             | 0.06             | 800                       | <a href="#">MHQ0603P1N6CT000</a> |
| 1.6       | $\pm 0.3$ nH | 500                               | 16        | 500                               | 10.0                       | 17.5      | 0.10             | 0.06             | 800                       | <a href="#">MHQ0603P1N6ST000</a> |
| 1.7       | $\pm 0.1$ nH | 500                               | 16        | 500                               | 10.0                       | 16.7      | 0.10             | 0.07             | 800                       | <a href="#">MHQ0603P1N7BT000</a> |
| 1.7       | $\pm 0.2$ nH | 500                               | 16        | 500                               | 10.0                       | 16.7      | 0.10             | 0.07             | 800                       | <a href="#">MHQ0603P1N7CT000</a> |
| 1.7       | $\pm 0.3$ nH | 500                               | 16        | 500                               | 10.0                       | 16.7      | 0.10             | 0.07             | 800                       | <a href="#">MHQ0603P1N7ST000</a> |
| 1.8       | $\pm 0.1$ nH | 500                               | 16        | 500                               | 10.0                       | 15.8      | 0.12             | 0.07             | 700                       | <a href="#">MHQ0603P1N8BT000</a> |
| 1.8       | $\pm 0.2$ nH | 500                               | 16        | 500                               | 10.0                       | 15.8      | 0.12             | 0.07             | 700                       | <a href="#">MHQ0603P1N8CT000</a> |
| 1.8       | $\pm 0.3$ nH | 500                               | 16        | 500                               | 10.0                       | 15.8      | 0.12             | 0.07             | 700                       | <a href="#">MHQ0603P1N8ST000</a> |
| 1.9       | $\pm 0.1$ nH | 500                               | 16        | 500                               | 10.0                       | 16.1      | 0.12             | 0.08             | 700                       | <a href="#">MHQ0603P1N9BT000</a> |
| 1.9       | $\pm 0.2$ nH | 500                               | 16        | 500                               | 10.0                       | 16.1      | 0.12             | 0.08             | 700                       | <a href="#">MHQ0603P1N9CT000</a> |
| 1.9       | $\pm 0.3$ nH | 500                               | 16        | 500                               | 10.0                       | 16.1      | 0.12             | 0.08             | 700                       | <a href="#">MHQ0603P1N9ST000</a> |
| 2.0       | $\pm 0.1$ nH | 500                               | 16        | 500                               | 10.0                       | 13.8      | 0.12             | 0.08             | 700                       | <a href="#">MHQ0603P2N0BT000</a> |
| 2.0       | $\pm 0.2$ nH | 500                               | 16        | 500                               | 10.0                       | 13.8      | 0.12             | 0.08             | 700                       | <a href="#">MHQ0603P2N0CT000</a> |
| 2.0       | $\pm 0.3$ nH | 500                               | 16        | 500                               | 10.0                       | 13.8      | 0.12             | 0.08             | 700                       | <a href="#">MHQ0603P2N0ST000</a> |
| 2.1       | $\pm 0.1$ nH | 500                               | 16        | 500                               | 10.0                       | 12.7      | 0.15             | 0.08             | 700                       | <a href="#">MHQ0603P2N1BT000</a> |
| 2.1       | $\pm 0.2$ nH | 500                               | 16        | 500                               | 10.0                       | 12.7      | 0.15             | 0.08             | 700                       | <a href="#">MHQ0603P2N1CT000</a> |
| 2.1       | $\pm 0.3$ nH | 500                               | 16        | 500                               | 10.0                       | 12.7      | 0.15             | 0.08             | 700                       | <a href="#">MHQ0603P2N1ST000</a> |

· Short bar residual inductance =0.48nH

### Measurement equipment

| Measurement item        | Product No.  | Manufacturer          |
|-------------------------|--------------|-----------------------|
| L, Q                    | 4991A+16197A | Keysight Technologies |
| Self-resonant frequency | 8720C        | Keysight Technologies |
| DC resistance           | Type-7561    | Yokogawa              |

\* Equivalent measurement equipment may be used.

# MHQ0603P type

## CHARACTERISTICS SPECIFICATION TABLE

| L    |              | L measuring frequency | Q    | Q measuring frequency | Self-resonant frequency |           | DC resistance    |                  | Rated current | Part No.                         |
|------|--------------|-----------------------|------|-----------------------|-------------------------|-----------|------------------|------------------|---------------|----------------------------------|
| (nH) | Tolerance    | (MHz)                 | min. | (MHz)                 | (GHz)min.               | (GHz)typ. | ( $\Omega$ )max. | ( $\Omega$ )typ. | (mA)max.      |                                  |
| 2.2  | $\pm 0.1$ nH | 500                   | 16   | 500                   | 10.0                    | 13.2      | 0.15             | 0.09             | 700           | <a href="#">MHQ0603P2N2BT000</a> |
| 2.2  | $\pm 0.2$ nH | 500                   | 16   | 500                   | 10.0                    | 13.2      | 0.15             | 0.09             | 700           | <a href="#">MHQ0603P2N2CT000</a> |
| 2.2  | $\pm 0.3$ nH | 500                   | 16   | 500                   | 10.0                    | 13.2      | 0.15             | 0.09             | 700           | <a href="#">MHQ0603P2N2ST000</a> |
| 2.3  | $\pm 0.1$ nH | 500                   | 16   | 500                   | 10.0                    | 12.5      | 0.15             | 0.08             | 700           | <a href="#">MHQ0603P2N3BT000</a> |
| 2.3  | $\pm 0.2$ nH | 500                   | 16   | 500                   | 10.0                    | 12.5      | 0.15             | 0.08             | 700           | <a href="#">MHQ0603P2N3CT000</a> |
| 2.3  | $\pm 0.3$ nH | 500                   | 16   | 500                   | 10.0                    | 12.5      | 0.15             | 0.08             | 700           | <a href="#">MHQ0603P2N3ST000</a> |
| 2.4  | $\pm 0.1$ nH | 500                   | 16   | 500                   | 8.0                     | 11.7      | 0.15             | 0.08             | 700           | <a href="#">MHQ0603P2N4BT000</a> |
| 2.4  | $\pm 0.2$ nH | 500                   | 16   | 500                   | 8.0                     | 11.7      | 0.15             | 0.08             | 700           | <a href="#">MHQ0603P2N4CT000</a> |
| 2.4  | $\pm 0.3$ nH | 500                   | 16   | 500                   | 8.0                     | 11.7      | 0.15             | 0.08             | 700           | <a href="#">MHQ0603P2N4ST000</a> |
| 2.5  | $\pm 0.1$ nH | 500                   | 16   | 500                   | 8.0                     | 11.1      | 0.25             | 0.17             | 500           | <a href="#">MHQ0603P2N5BT000</a> |
| 2.5  | $\pm 0.2$ nH | 500                   | 16   | 500                   | 8.0                     | 11.1      | 0.25             | 0.17             | 500           | <a href="#">MHQ0603P2N5CT000</a> |
| 2.5  | $\pm 0.3$ nH | 500                   | 16   | 500                   | 8.0                     | 11.1      | 0.25             | 0.17             | 500           | <a href="#">MHQ0603P2N5ST000</a> |
| 2.6  | $\pm 0.1$ nH | 500                   | 16   | 500                   | 8.0                     | 11.1      | 0.25             | 0.16             | 500           | <a href="#">MHQ0603P2N6BT000</a> |
| 2.6  | $\pm 0.2$ nH | 500                   | 16   | 500                   | 8.0                     | 11.1      | 0.25             | 0.16             | 500           | <a href="#">MHQ0603P2N6CT000</a> |
| 2.6  | $\pm 0.3$ nH | 500                   | 16   | 500                   | 8.0                     | 11.1      | 0.25             | 0.16             | 500           | <a href="#">MHQ0603P2N6ST000</a> |
| 2.7  | $\pm 0.1$ nH | 500                   | 16   | 500                   | 8.0                     | 10.5      | 0.25             | 0.16             | 500           | <a href="#">MHQ0603P2N7BT000</a> |
| 2.7  | $\pm 0.2$ nH | 500                   | 16   | 500                   | 8.0                     | 10.5      | 0.25             | 0.16             | 500           | <a href="#">MHQ0603P2N7CT000</a> |
| 2.7  | $\pm 0.3$ nH | 500                   | 16   | 500                   | 8.0                     | 10.5      | 0.25             | 0.16             | 500           | <a href="#">MHQ0603P2N7ST000</a> |
| 2.8  | $\pm 0.1$ nH | 500                   | 16   | 500                   | 8.0                     | 10.6      | 0.25             | 0.18             | 500           | <a href="#">MHQ0603P2N8BT000</a> |
| 2.8  | $\pm 0.2$ nH | 500                   | 16   | 500                   | 8.0                     | 10.6      | 0.25             | 0.18             | 500           | <a href="#">MHQ0603P2N8CT000</a> |
| 2.8  | $\pm 0.3$ nH | 500                   | 16   | 500                   | 8.0                     | 10.6      | 0.25             | 0.18             | 500           | <a href="#">MHQ0603P2N8ST000</a> |
| 2.9  | $\pm 0.1$ nH | 500                   | 16   | 500                   | 8.0                     | 10.8      | 0.30             | 0.19             | 450           | <a href="#">MHQ0603P2N9BT000</a> |
| 2.9  | $\pm 0.2$ nH | 500                   | 16   | 500                   | 8.0                     | 10.8      | 0.30             | 0.19             | 450           | <a href="#">MHQ0603P2N9CT000</a> |
| 2.9  | $\pm 0.3$ nH | 500                   | 16   | 500                   | 8.0                     | 10.8      | 0.30             | 0.19             | 450           | <a href="#">MHQ0603P2N9ST000</a> |
| 3.0  | $\pm 0.1$ nH | 500                   | 16   | 500                   | 8.0                     | 10.3      | 0.30             | 0.19             | 450           | <a href="#">MHQ0603P3N0BT000</a> |
| 3.0  | $\pm 0.2$ nH | 500                   | 16   | 500                   | 8.0                     | 10.3      | 0.30             | 0.19             | 450           | <a href="#">MHQ0603P3N0CT000</a> |
| 3.0  | $\pm 0.3$ nH | 500                   | 16   | 500                   | 8.0                     | 10.3      | 0.30             | 0.19             | 450           | <a href="#">MHQ0603P3N0ST000</a> |
| 3.1  | $\pm 0.1$ nH | 500                   | 16   | 500                   | 8.0                     | 10.5      | 0.30             | 0.19             | 450           | <a href="#">MHQ0603P3N1BT000</a> |
| 3.1  | $\pm 0.2$ nH | 500                   | 16   | 500                   | 8.0                     | 10.5      | 0.30             | 0.19             | 450           | <a href="#">MHQ0603P3N1CT000</a> |
| 3.1  | $\pm 0.3$ nH | 500                   | 16   | 500                   | 8.0                     | 10.5      | 0.30             | 0.19             | 450           | <a href="#">MHQ0603P3N1ST000</a> |
| 3.2  | $\pm 0.1$ nH | 500                   | 16   | 500                   | 7.0                     | 9.5       | 0.20             | 0.13             | 550           | <a href="#">MHQ0603P3N2BT000</a> |
| 3.2  | $\pm 0.2$ nH | 500                   | 16   | 500                   | 7.0                     | 9.5       | 0.20             | 0.13             | 550           | <a href="#">MHQ0603P3N2CT000</a> |
| 3.2  | $\pm 0.3$ nH | 500                   | 16   | 500                   | 7.0                     | 9.5       | 0.20             | 0.13             | 550           | <a href="#">MHQ0603P3N2ST000</a> |
| 3.3  | $\pm 0.1$ nH | 500                   | 16   | 500                   | 7.0                     | 9.6       | 0.25             | 0.15             | 500           | <a href="#">MHQ0603P3N3BT000</a> |
| 3.3  | $\pm 0.2$ nH | 500                   | 16   | 500                   | 7.0                     | 9.6       | 0.25             | 0.15             | 500           | <a href="#">MHQ0603P3N3CT000</a> |
| 3.3  | $\pm 0.3$ nH | 500                   | 16   | 500                   | 7.0                     | 9.6       | 0.25             | 0.15             | 500           | <a href="#">MHQ0603P3N3ST000</a> |
| 3.4  | $\pm 0.1$ nH | 500                   | 16   | 500                   | 6.5                     | 9.3       | 0.25             | 0.14             | 500           | <a href="#">MHQ0603P3N4BT000</a> |
| 3.4  | $\pm 0.2$ nH | 500                   | 16   | 500                   | 6.5                     | 9.3       | 0.25             | 0.14             | 500           | <a href="#">MHQ0603P3N4CT000</a> |
| 3.4  | $\pm 0.3$ nH | 500                   | 16   | 500                   | 6.5                     | 9.3       | 0.25             | 0.14             | 500           | <a href="#">MHQ0603P3N4ST000</a> |
| 3.5  | $\pm 0.1$ nH | 500                   | 16   | 500                   | 6.5                     | 9.5       | 0.25             | 0.17             | 500           | <a href="#">MHQ0603P3N5BT000</a> |
| 3.5  | $\pm 0.2$ nH | 500                   | 16   | 500                   | 6.5                     | 9.5       | 0.25             | 0.17             | 500           | <a href="#">MHQ0603P3N5CT000</a> |
| 3.5  | $\pm 0.3$ nH | 500                   | 16   | 500                   | 6.5                     | 9.5       | 0.25             | 0.17             | 500           | <a href="#">MHQ0603P3N5ST000</a> |
| 3.6  | $\pm 0.1$ nH | 500                   | 16   | 500                   | 6.5                     | 9.1       | 0.25             | 0.16             | 500           | <a href="#">MHQ0603P3N6BT000</a> |
| 3.6  | $\pm 0.2$ nH | 500                   | 16   | 500                   | 6.5                     | 9.1       | 0.25             | 0.16             | 500           | <a href="#">MHQ0603P3N6CT000</a> |
| 3.6  | $\pm 0.3$ nH | 500                   | 16   | 500                   | 6.5                     | 9.1       | 0.25             | 0.16             | 500           | <a href="#">MHQ0603P3N6ST000</a> |

· Short bar residual inductance =0.48nH

### Measurement equipment

| Measurement item        | Product No.  | Manufacturer          |
|-------------------------|--------------|-----------------------|
| L, Q                    | 4991A+16197A | Keysight Technologies |
| Self-resonant frequency | 8720C        | Keysight Technologies |
| DC resistance           | Type-7561    | Yokogawa              |

\* Equivalent measurement equipment may be used.

# MHQ0603P type

## CHARACTERISTICS SPECIFICATION TABLE

| L<br>(nH) | Tolerance | L measuring<br>frequency<br>(MHz) | Q<br>min. | 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       | ±0.1nH    | 500                               | 16        | 500                               | 6.5                        | 9.1       | 0.25             | 0.17             | 450                       | <a href="#">MHQ0603P3N7BT000</a> |
| 3.7       | ±0.2nH    | 500                               | 16        | 500                               | 6.5                        | 9.1       | 0.25             | 0.17             | 450                       | <a href="#">MHQ0603P3N7CT000</a> |
| 3.7       | ±0.3nH    | 500                               | 16        | 500                               | 6.5                        | 9.1       | 0.25             | 0.17             | 450                       | <a href="#">MHQ0603P3N7ST000</a> |
| 3.8       | ±0.1nH    | 500                               | 16        | 500                               | 6.5                        | 9.1       | 0.30             | 0.19             | 450                       | <a href="#">MHQ0603P3N8BT000</a> |
| 3.8       | ±0.2nH    | 500                               | 16        | 500                               | 6.5                        | 9.1       | 0.30             | 0.19             | 450                       | <a href="#">MHQ0603P3N8CT000</a> |
| 3.8       | ±0.3nH    | 500                               | 16        | 500                               | 6.5                        | 9.1       | 0.30             | 0.19             | 450                       | <a href="#">MHQ0603P3N8ST000</a> |
| 3.9       | ±0.1nH    | 500                               | 16        | 500                               | 6.5                        | 9.2       | 0.35             | 0.23             | 400                       | <a href="#">MHQ0603P3N9BT000</a> |
| 3.9       | ±0.2nH    | 500                               | 16        | 500                               | 6.5                        | 9.2       | 0.35             | 0.23             | 400                       | <a href="#">MHQ0603P3N9CT000</a> |
| 3.9       | ±0.3nH    | 500                               | 16        | 500                               | 6.5                        | 9.2       | 0.35             | 0.23             | 400                       | <a href="#">MHQ0603P3N9ST000</a> |
| 4.0       | ±0.1nH    | 500                               | 16        | 500                               | 6.0                        | 8.5       | 0.35             | 0.26             | 400                       | <a href="#">MHQ0603P4N0BT000</a> |
| 4.0       | ±0.2nH    | 500                               | 16        | 500                               | 6.0                        | 8.5       | 0.35             | 0.26             | 400                       | <a href="#">MHQ0603P4N0CT000</a> |
| 4.0       | ±0.3nH    | 500                               | 16        | 500                               | 6.0                        | 8.5       | 0.35             | 0.26             | 400                       | <a href="#">MHQ0603P4N0ST000</a> |
| 4.1       | ±0.1nH    | 500                               | 16        | 500                               | 6.0                        | 8.3       | 0.35             | 0.22             | 400                       | <a href="#">MHQ0603P4N1BT000</a> |
| 4.1       | ±0.2nH    | 500                               | 16        | 500                               | 6.0                        | 8.3       | 0.35             | 0.22             | 400                       | <a href="#">MHQ0603P4N1CT000</a> |
| 4.1       | ±0.3nH    | 500                               | 16        | 500                               | 6.0                        | 8.3       | 0.35             | 0.22             | 400                       | <a href="#">MHQ0603P4N1ST000</a> |
| 4.2       | ±0.1nH    | 500                               | 16        | 500                               | 6.0                        | 8.2       | 0.35             | 0.23             | 400                       | <a href="#">MHQ0603P4N2BT000</a> |
| 4.2       | ±0.2nH    | 500                               | 16        | 500                               | 6.0                        | 8.2       | 0.35             | 0.23             | 400                       | <a href="#">MHQ0603P4N2CT000</a> |
| 4.2       | ±0.3nH    | 500                               | 16        | 500                               | 6.0                        | 8.2       | 0.35             | 0.23             | 400                       | <a href="#">MHQ0603P4N2ST000</a> |
| 4.3       | ±0.2nH    | 500                               | 16        | 500                               | 6.0                        | 8.2       | 0.35             | 0.23             | 400                       | <a href="#">MHQ0603P4N3CT000</a> |
| 4.3       | ±0.3nH    | 500                               | 16        | 500                               | 6.0                        | 8.2       | 0.35             | 0.23             | 400                       | <a href="#">MHQ0603P4N3ST000</a> |
| 4.3       | ±3%       | 500                               | 16        | 500                               | 6.0                        | 8.2       | 0.35             | 0.23             | 400                       | <a href="#">MHQ0603P4N3HT000</a> |
| 4.7       | ±0.2nH    | 500                               | 16        | 500                               | 5.5                        | 7.9       | 0.40             | 0.25             | 350                       | <a href="#">MHQ0603P4N7CT000</a> |
| 4.7       | ±0.3nH    | 500                               | 16        | 500                               | 5.5                        | 7.9       | 0.40             | 0.25             | 350                       | <a href="#">MHQ0603P4N7ST000</a> |
| 4.7       | ±3%       | 500                               | 16        | 500                               | 5.5                        | 7.9       | 0.40             | 0.25             | 350                       | <a href="#">MHQ0603P4N7HT000</a> |
| 5.1       | ±0.2nH    | 500                               | 16        | 500                               | 5.5                        | 7.8       | 0.40             | 0.24             | 350                       | <a href="#">MHQ0603P5N1CT000</a> |
| 5.1       | ±0.3nH    | 500                               | 16        | 500                               | 5.5                        | 7.8       | 0.40             | 0.24             | 350                       | <a href="#">MHQ0603P5N1ST000</a> |
| 5.1       | ±3%       | 500                               | 16        | 500                               | 5.5                        | 7.8       | 0.40             | 0.24             | 350                       | <a href="#">MHQ0603P5N1HT000</a> |
| 5.6       | ±0.2nH    | 500                               | 16        | 500                               | 5.0                        | 7.1       | 0.40             | 0.29             | 350                       | <a href="#">MHQ0603P5N6CT000</a> |
| 5.6       | ±0.3nH    | 500                               | 16        | 500                               | 5.0                        | 7.1       | 0.40             | 0.29             | 350                       | <a href="#">MHQ0603P5N6ST000</a> |
| 5.6       | ±3%       | 500                               | 16        | 500                               | 5.0                        | 7.1       | 0.40             | 0.29             | 350                       | <a href="#">MHQ0603P5N6HT000</a> |
| 6.2       | ±0.3nH    | 500                               | 16        | 500                               | 4.0                        | 6.7       | 0.70             | 0.52             | 300                       | <a href="#">MHQ0603P6N2ST000</a> |
| 6.2       | ±3%       | 500                               | 16        | 500                               | 4.0                        | 6.7       | 0.70             | 0.52             | 300                       | <a href="#">MHQ0603P6N2HT000</a> |
| 6.8       | ±3%       | 500                               | 16        | 500                               | 4.0                        | 6.8       | 0.70             | 0.53             | 300                       | <a href="#">MHQ0603P6N8HT000</a> |
| 6.8       | ±5%       | 500                               | 16        | 500                               | 4.0                        | 6.8       | 0.70             | 0.53             | 300                       | <a href="#">MHQ0603P6N8JT000</a> |
| 7.5       | ±3%       | 500                               | 16        | 500                               | 3.8                        | 5.7       | 0.50             | 0.37             | 300                       | <a href="#">MHQ0603P7N5HT000</a> |
| 7.5       | ±5%       | 500                               | 16        | 500                               | 3.8                        | 5.7       | 0.50             | 0.37             | 300                       | <a href="#">MHQ0603P7N5JT000</a> |
| 8.2       | ±3%       | 500                               | 16        | 500                               | 3.8                        | 5.4       | 0.90             | 0.64             | 250                       | <a href="#">MHQ0603P8N2HT000</a> |
| 8.2       | ±5%       | 500                               | 16        | 500                               | 3.8                        | 5.4       | 0.90             | 0.64             | 250                       | <a href="#">MHQ0603P8N2JT000</a> |
| 9.1       | ±3%       | 500                               | 16        | 500                               | 3.8                        | 5.5       | 0.90             | 0.62             | 250                       | <a href="#">MHQ0603P9N1HT000</a> |
| 9.1       | ±5%       | 500                               | 16        | 500                               | 3.8                        | 5.5       | 0.90             | 0.62             | 250                       | <a href="#">MHQ0603P9N1JT000</a> |
| 10        | ±3%       | 500                               | 16        | 500                               | 3.5                        | 5.2       | 1.20             | 0.86             | 240                       | <a href="#">MHQ0603P10NHT000</a> |
| 10        | ±5%       | 500                               | 16        | 500                               | 3.5                        | 5.2       | 1.20             | 0.86             | 240                       | <a href="#">MHQ0603P10NJT000</a> |
| 11        | ±3%       | 500                               | 16        | 500                               | 3.2                        | 4.6       | 1.30             | 0.89             | 240                       | <a href="#">MHQ0603P11NHT000</a> |
| 11        | ±5%       | 500                               | 16        | 500                               | 3.2                        | 4.6       | 1.30             | 0.89             | 240                       | <a href="#">MHQ0603P11NJT000</a> |

· Short bar residual inductance =0.48nH

### Measurement equipment

| Measurement item        | Product No.  | Manufacturer          |
|-------------------------|--------------|-----------------------|
| L, Q                    | 4991A+16197A | Keysight Technologies |
| Self-resonant frequency | 8720C        | Keysight Technologies |
| DC resistance           | Type-7561    | Yokogawa              |

\* Equivalent measurement equipment may be used.

# MHQ0603P type

## CHARACTERISTICS SPECIFICATION TABLE

| L    |           | L measuring frequency | Q    | Q measuring frequency | Self-resonant frequency |           | DC resistance    |                  | Rated current | Part No.                         |
|------|-----------|-----------------------|------|-----------------------|-------------------------|-----------|------------------|------------------|---------------|----------------------------------|
| (nH) | Tolerance | (MHz)                 | min. | (MHz)                 | (GHz)min.               | (GHz)typ. | ( $\Omega$ )max. | ( $\Omega$ )typ. | (mA)max.      |                                  |
| 12   | ±3%       | 500                   | 16   | 500                   | 3.2                     | 4.6       | 1.40             | 0.77             | 240           | <a href="#">MHQ0603P12NHT000</a> |
| 12   | ±5%       | 500                   | 16   | 500                   | 3.2                     | 4.6       | 1.40             | 0.77             | 240           | <a href="#">MHQ0603P12NJT000</a> |
| 13   | ±3%       | 500                   | 16   | 500                   | 3.2                     | 4.5       | 1.50             | 1.01             | 180           | <a href="#">MHQ0603P13NHT000</a> |
| 13   | ±5%       | 500                   | 16   | 500                   | 3.2                     | 4.5       | 1.50             | 1.01             | 180           | <a href="#">MHQ0603P13NJT000</a> |
| 15   | ±3%       | 500                   | 16   | 500                   | 2.8                     | 4.2       | 1.50             | 1.05             | 180           | <a href="#">MHQ0603P15NHT000</a> |
| 15   | ±5%       | 500                   | 16   | 500                   | 2.8                     | 4.2       | 1.50             | 1.05             | 180           | <a href="#">MHQ0603P15NJT000</a> |
| 16   | ±3%       | 500                   | 16   | 500                   | 2.5                     | 4.0       | 1.70             | 1.21             | 180           | <a href="#">MHQ0603P16NHT000</a> |
| 16   | ±5%       | 500                   | 16   | 500                   | 2.5                     | 4.0       | 1.70             | 1.21             | 180           | <a href="#">MHQ0603P16NJT000</a> |
| 18   | ±3%       | 500                   | 16   | 500                   | 2.4                     | 3.7       | 1.70             | 1.21             | 180           | <a href="#">MHQ0603P18NHT000</a> |
| 18   | ±5%       | 500                   | 16   | 500                   | 2.4                     | 3.7       | 1.70             | 1.21             | 180           | <a href="#">MHQ0603P18NJT000</a> |
| 20   | ±3%       | 500                   | 16   | 500                   | 2.4                     | 3.5       | 2.00             | 1.38             | 160           | <a href="#">MHQ0603P20NHT000</a> |
| 20   | ±5%       | 500                   | 16   | 500                   | 2.4                     | 3.5       | 2.00             | 1.38             | 160           | <a href="#">MHQ0603P20NJT000</a> |
| 22   | ±3%       | 500                   | 16   | 500                   | 2.2                     | 3.3       | 2.00             | 1.40             | 160           | <a href="#">MHQ0603P22NHT000</a> |
| 22   | ±5%       | 500                   | 16   | 500                   | 2.2                     | 3.3       | 2.00             | 1.40             | 160           | <a href="#">MHQ0603P22NJT000</a> |
| 24   | ±3%       | 500                   | 16   | 500                   | 2.1                     | 3.1       | 2.20             | 1.55             | 160           | <a href="#">MHQ0603P24NHT000</a> |
| 24   | ±5%       | 500                   | 16   | 500                   | 2.1                     | 3.1       | 2.20             | 1.55             | 160           | <a href="#">MHQ0603P24NJT000</a> |
| 27   | ±3%       | 500                   | 16   | 500                   | 2.0                     | 2.9       | 2.20             | 1.55             | 160           | <a href="#">MHQ0603P27NHT000</a> |
| 27   | ±5%       | 500                   | 16   | 500                   | 2.0                     | 2.9       | 2.20             | 1.55             | 160           | <a href="#">MHQ0603P27NJT000</a> |
| 30   | ±3%       | 500                   | 16   | 500                   | 1.9                     | 2.7       | 2.70             | 1.98             | 160           | <a href="#">MHQ0603P30NHT000</a> |
| 30   | ±5%       | 500                   | 16   | 500                   | 1.9                     | 2.7       | 2.70             | 1.98             | 160           | <a href="#">MHQ0603P30NJT000</a> |
| 33   | ±3%       | 300                   | 14   | 300                   | 1.8                     | 2.5       | 2.80             | 2.06             | 160           | <a href="#">MHQ0603P33NHT000</a> |
| 33   | ±5%       | 300                   | 14   | 300                   | 1.8                     | 2.5       | 2.80             | 2.06             | 160           | <a href="#">MHQ0603P33NJT000</a> |
| 36   | ±3%       | 300                   | 14   | 300                   | 1.7                     | 2.4       | 2.80             | 2.08             | 160           | <a href="#">MHQ0603P36NHT000</a> |
| 36   | ±5%       | 300                   | 14   | 300                   | 1.7                     | 2.4       | 2.80             | 2.08             | 160           | <a href="#">MHQ0603P36NJT000</a> |
| 39   | ±3%       | 300                   | 14   | 300                   | 1.6                     | 2.3       | 3.00             | 2.24             | 160           | <a href="#">MHQ0603P39NHT000</a> |
| 39   | ±5%       | 300                   | 14   | 300                   | 1.6                     | 2.3       | 3.00             | 2.24             | 160           | <a href="#">MHQ0603P39NJT000</a> |

• Short bar residual inductance =0.48nH

### Measurement equipment

| Measurement item        | Product No.  | Manufacturer          |
|-------------------------|--------------|-----------------------|
| L, Q                    | 4991A+16197A | Keysight Technologies |
| Self-resonant frequency | 8720C        | Keysight Technologies |
| DC resistance           | Type-7561    | Yokogawa              |

\* Equivalent measurement equipment may be used.

# MHQ0603P 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    | 29min. | 38min. | 58min. | 60min. | 66min. | <a href="#">MHQ0603P0N6BT000</a> |
| 0.6       | 0.6    | 0.6    | 0.6    | 0.6    | 29min. | 38min. | 58min. | 60min. | 66min. | <a href="#">MHQ0603P0N6CT000</a> |
| 0.7       | 0.7    | 0.7    | 0.7    | 0.7    | 29min. | 38min. | 58min. | 60min. | 66min. | <a href="#">MHQ0603P0N7BT000</a> |
| 0.7       | 0.7    | 0.7    | 0.7    | 0.7    | 29min. | 38min. | 58min. | 60min. | 66min. | <a href="#">MHQ0603P0N7CT000</a> |
| 0.8       | 0.8    | 0.8    | 0.8    | 0.8    | 29min. | 38min. | 58min. | 60min. | 66min. | <a href="#">MHQ0603P0N8BT000</a> |
| 0.8       | 0.8    | 0.8    | 0.8    | 0.8    | 29min. | 38min. | 58min. | 60min. | 66min. | <a href="#">MHQ0603P0N8CT000</a> |
| 0.9       | 0.9    | 0.9    | 0.9    | 0.9    | 29min. | 38min. | 58min. | 60min. | 66min. | <a href="#">MHQ0603P0N9BT000</a> |
| 0.9       | 0.9    | 0.9    | 0.9    | 0.9    | 29min. | 38min. | 58min. | 60min. | 66min. | <a href="#">MHQ0603P0N9CT000</a> |
| 1.0       | 1.0    | 1.0    | 1.0    | 1.0    | 29min. | 38min. | 58min. | 60min. | 66min. | <a href="#">MHQ0603P1N0BT000</a> |
| 1.0       | 1.0    | 1.0    | 1.0    | 1.0    | 29min. | 38min. | 58min. | 60min. | 66min. | <a href="#">MHQ0603P1N0CT000</a> |
| 1.0       | 1.0    | 1.0    | 1.0    | 1.0    | 29min. | 38min. | 58min. | 60min. | 66min. | <a href="#">MHQ0603P1N0ST000</a> |
| 1.1       | 1.1    | 1.1    | 1.1    | 1.1    | 29min. | 38min. | 58min. | 60min. | 66min. | <a href="#">MHQ0603P1N1BT000</a> |
| 1.1       | 1.1    | 1.1    | 1.1    | 1.1    | 29min. | 38min. | 58min. | 60min. | 66min. | <a href="#">MHQ0603P1N1CT000</a> |
| 1.1       | 1.1    | 1.1    | 1.1    | 1.1    | 29min. | 38min. | 58min. | 60min. | 66min. | <a href="#">MHQ0603P1N1ST000</a> |
| 1.2       | 1.2    | 1.2    | 1.2    | 1.2    | 29min. | 38min. | 58min. | 60min. | 66min. | <a href="#">MHQ0603P1N2BT000</a> |
| 1.2       | 1.2    | 1.2    | 1.2    | 1.2    | 29min. | 38min. | 58min. | 60min. | 66min. | <a href="#">MHQ0603P1N2CT000</a> |
| 1.2       | 1.2    | 1.2    | 1.2    | 1.2    | 29min. | 38min. | 58min. | 60min. | 66min. | <a href="#">MHQ0603P1N2ST000</a> |
| 1.3       | 1.3    | 1.3    | 1.3    | 1.3    | 29min. | 38min. | 58min. | 60min. | 66min. | <a href="#">MHQ0603P1N3BT000</a> |
| 1.3       | 1.3    | 1.3    | 1.3    | 1.3    | 29min. | 38min. | 58min. | 60min. | 66min. | <a href="#">MHQ0603P1N3CT000</a> |
| 1.3       | 1.3    | 1.3    | 1.3    | 1.3    | 29min. | 38min. | 58min. | 60min. | 66min. | <a href="#">MHQ0603P1N3ST000</a> |
| 1.4       | 1.4    | 1.4    | 1.4    | 1.4    | 29min. | 38min. | 58min. | 60min. | 66min. | <a href="#">MHQ0603P1N4BT000</a> |
| 1.4       | 1.4    | 1.4    | 1.4    | 1.4    | 29min. | 38min. | 58min. | 60min. | 66min. | <a href="#">MHQ0603P1N4CT000</a> |
| 1.4       | 1.4    | 1.4    | 1.4    | 1.4    | 29min. | 38min. | 58min. | 60min. | 66min. | <a href="#">MHQ0603P1N4ST000</a> |
| 1.5       | 1.5    | 1.5    | 1.5    | 1.5    | 29     | 38     | 58     | 60     | 66     | <a href="#">MHQ0603P1N5BT000</a> |
| 1.5       | 1.5    | 1.5    | 1.5    | 1.5    | 29     | 38     | 58     | 60     | 66     | <a href="#">MHQ0603P1N5CT000</a> |
| 1.5       | 1.5    | 1.5    | 1.5    | 1.5    | 29     | 38     | 58     | 60     | 66     | <a href="#">MHQ0603P1N5ST000</a> |
| 1.6       | 1.6    | 1.6    | 1.6    | 1.6    | 28     | 37     | 56     | 60     | 66     | <a href="#">MHQ0603P1N6BT000</a> |
| 1.6       | 1.6    | 1.6    | 1.6    | 1.6    | 28     | 37     | 56     | 60     | 66     | <a href="#">MHQ0603P1N6CT000</a> |
| 1.6       | 1.6    | 1.6    | 1.6    | 1.6    | 28     | 37     | 56     | 60     | 66     | <a href="#">MHQ0603P1N6ST000</a> |
| 1.7       | 1.7    | 1.7    | 1.7    | 1.7    | 30     | 39     | 62     | 65     | 71     | <a href="#">MHQ0603P1N7BT000</a> |
| 1.7       | 1.7    | 1.7    | 1.7    | 1.7    | 30     | 39     | 62     | 65     | 71     | <a href="#">MHQ0603P1N7CT000</a> |
| 1.7       | 1.7    | 1.7    | 1.7    | 1.7    | 30     | 39     | 62     | 65     | 71     | <a href="#">MHQ0603P1N7ST000</a> |
| 1.8       | 1.8    | 1.8    | 1.8    | 1.8    | 29     | 38     | 59     | 62     | 69     | <a href="#">MHQ0603P1N8BT000</a> |
| 1.8       | 1.8    | 1.8    | 1.8    | 1.8    | 29     | 38     | 59     | 62     | 69     | <a href="#">MHQ0603P1N8CT000</a> |
| 1.8       | 1.8    | 1.8    | 1.8    | 1.8    | 29     | 38     | 59     | 62     | 69     | <a href="#">MHQ0603P1N8ST000</a> |
| 1.9       | 1.9    | 1.9    | 1.9    | 1.9    | 28     | 38     | 57     | 60     | 66     | <a href="#">MHQ0603P1N9BT000</a> |
| 1.9       | 1.9    | 1.9    | 1.9    | 1.9    | 28     | 38     | 57     | 60     | 66     | <a href="#">MHQ0603P1N9CT000</a> |
| 1.9       | 1.9    | 1.9    | 1.9    | 1.9    | 28     | 38     | 57     | 60     | 66     | <a href="#">MHQ0603P1N9ST000</a> |
| 2.0       | 2.0    | 2.0    | 2.0    | 2.0    | 27     | 35     | 55     | 58     | 64     | <a href="#">MHQ0603P2N0BT000</a> |
| 2.0       | 2.0    | 2.0    | 2.0    | 2.0    | 27     | 35     | 55     | 58     | 64     | <a href="#">MHQ0603P2N0CT000</a> |
| 2.0       | 2.0    | 2.0    | 2.0    | 2.0    | 27     | 35     | 55     | 58     | 64     | <a href="#">MHQ0603P2N0ST000</a> |
| 2.1       | 2.1    | 2.1    | 2.1    | 2.2    | 29     | 37     | 58     | 62     | 68     | <a href="#">MHQ0603P2N1BT000</a> |
| 2.1       | 2.1    | 2.1    | 2.1    | 2.2    | 29     | 37     | 58     | 62     | 68     | <a href="#">MHQ0603P2N1CT000</a> |
| 2.1       | 2.1    | 2.1    | 2.1    | 2.2    | 29     | 37     | 58     | 62     | 68     | <a href="#">MHQ0603P2N1ST000</a> |

### Measurement equipment

| Product No.  | Manufacturer          |
|--------------|-----------------------|
| 4291B+16193A | Keysight Technologies |

\* Equivalent measurement equipment may be used.

# MHQ0603P 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 |                                  |
| 2.2       | 2.2    | 2.2    | 2.2    | 2.3    | 28     | 37     | 57     | 61     | 68     | <a href="#">MHQ0603P2N2BT000</a> |
| 2.2       | 2.2    | 2.2    | 2.2    | 2.3    | 28     | 37     | 57     | 61     | 68     | <a href="#">MHQ0603P2N2CT000</a> |
| 2.2       | 2.2    | 2.2    | 2.2    | 2.3    | 28     | 37     | 57     | 61     | 68     | <a href="#">MHQ0603P2N2ST000</a> |
| 2.3       | 2.3    | 2.3    | 2.3    | 2.4    | 31     | 40     | 61     | 64     | 71     | <a href="#">MHQ0603P2N3BT000</a> |
| 2.3       | 2.3    | 2.3    | 2.3    | 2.4    | 31     | 40     | 61     | 64     | 71     | <a href="#">MHQ0603P2N3CT000</a> |
| 2.3       | 2.3    | 2.3    | 2.3    | 2.4    | 31     | 40     | 61     | 64     | 71     | <a href="#">MHQ0603P2N3ST000</a> |
| 2.4       | 2.4    | 2.4    | 2.4    | 2.5    | 31     | 41     | 62     | 64     | 71     | <a href="#">MHQ0603P2N4BT000</a> |
| 2.4       | 2.4    | 2.4    | 2.4    | 2.5    | 31     | 41     | 62     | 64     | 71     | <a href="#">MHQ0603P2N4CT000</a> |
| 2.4       | 2.4    | 2.4    | 2.4    | 2.5    | 31     | 41     | 62     | 64     | 71     | <a href="#">MHQ0603P2N4ST000</a> |
| 2.5       | 2.5    | 2.5    | 2.6    | 2.6    | 25     | 32     | 51     | 53     | 59     | <a href="#">MHQ0603P2N5BT000</a> |
| 2.5       | 2.5    | 2.5    | 2.6    | 2.6    | 25     | 32     | 51     | 53     | 59     | <a href="#">MHQ0603P2N5CT000</a> |
| 2.5       | 2.5    | 2.5    | 2.6    | 2.6    | 25     | 32     | 51     | 53     | 59     | <a href="#">MHQ0603P2N5ST000</a> |
| 2.6       | 2.6    | 2.6    | 2.7    | 2.7    | 26     | 34     | 54     | 56     | 62     | <a href="#">MHQ0603P2N6BT000</a> |
| 2.6       | 2.6    | 2.6    | 2.7    | 2.7    | 26     | 34     | 54     | 56     | 62     | <a href="#">MHQ0603P2N6CT000</a> |
| 2.6       | 2.6    | 2.6    | 2.7    | 2.7    | 26     | 34     | 54     | 56     | 62     | <a href="#">MHQ0603P2N6ST000</a> |
| 2.7       | 2.7    | 2.7    | 2.8    | 2.8    | 26     | 34     | 54     | 57     | 63     | <a href="#">MHQ0603P2N7BT000</a> |
| 2.7       | 2.7    | 2.7    | 2.8    | 2.8    | 26     | 34     | 54     | 57     | 63     | <a href="#">MHQ0603P2N7CT000</a> |
| 2.7       | 2.7    | 2.7    | 2.8    | 2.8    | 26     | 34     | 54     | 57     | 63     | <a href="#">MHQ0603P2N7ST000</a> |
| 2.8       | 2.8    | 2.8    | 2.9    | 2.9    | 26     | 35     | 54     | 55     | 62     | <a href="#">MHQ0603P2N8BT000</a> |
| 2.8       | 2.8    | 2.8    | 2.9    | 2.9    | 26     | 35     | 54     | 55     | 62     | <a href="#">MHQ0603P2N8CT000</a> |
| 2.8       | 2.8    | 2.8    | 2.9    | 2.9    | 26     | 35     | 54     | 55     | 62     | <a href="#">MHQ0603P2N8ST000</a> |
| 2.9       | 2.9    | 2.9    | 3.0    | 3.0    | 24     | 31     | 48     | 51     | 56     | <a href="#">MHQ0603P2N9BT000</a> |
| 2.9       | 2.9    | 2.9    | 3.0    | 3.0    | 24     | 31     | 48     | 51     | 56     | <a href="#">MHQ0603P2N9CT000</a> |
| 2.9       | 2.9    | 2.9    | 3.0    | 3.0    | 24     | 31     | 48     | 51     | 56     | <a href="#">MHQ0603P2N9ST000</a> |
| 3.0       | 3.0    | 3.0    | 3.1    | 3.1    | 23     | 30     | 46     | 48     | 52     | <a href="#">MHQ0603P3N0BT000</a> |
| 3.0       | 3.0    | 3.0    | 3.1    | 3.1    | 23     | 30     | 46     | 48     | 52     | <a href="#">MHQ0603P3N0CT000</a> |
| 3.0       | 3.0    | 3.0    | 3.1    | 3.1    | 23     | 30     | 46     | 48     | 52     | <a href="#">MHQ0603P3N0ST000</a> |
| 3.1       | 3.1    | 3.2    | 3.2    | 3.2    | 24     | 32     | 49     | 51     | 57     | <a href="#">MHQ0603P3N1BT000</a> |
| 3.1       | 3.1    | 3.2    | 3.2    | 3.2    | 24     | 32     | 49     | 51     | 57     | <a href="#">MHQ0603P3N1CT000</a> |
| 3.1       | 3.1    | 3.2    | 3.2    | 3.2    | 24     | 32     | 49     | 51     | 57     | <a href="#">MHQ0603P3N1ST000</a> |
| 3.2       | 3.2    | 3.3    | 3.3    | 3.4    | 27     | 35     | 53     | 55     | 61     | <a href="#">MHQ0603P3N2BT000</a> |
| 3.2       | 3.2    | 3.3    | 3.3    | 3.4    | 27     | 35     | 53     | 55     | 61     | <a href="#">MHQ0603P3N2CT000</a> |
| 3.2       | 3.2    | 3.3    | 3.3    | 3.4    | 27     | 35     | 53     | 55     | 61     | <a href="#">MHQ0603P3N2ST000</a> |
| 3.3       | 3.3    | 3.4    | 3.4    | 3.5    | 25     | 32     | 48     | 50     | 54     | <a href="#">MHQ0603P3N3BT000</a> |
| 3.3       | 3.3    | 3.4    | 3.4    | 3.5    | 25     | 32     | 48     | 50     | 54     | <a href="#">MHQ0603P3N3CT000</a> |
| 3.3       | 3.3    | 3.4    | 3.4    | 3.5    | 25     | 32     | 48     | 50     | 54     | <a href="#">MHQ0603P3N3ST000</a> |
| 3.4       | 3.4    | 3.5    | 3.5    | 3.6    | 27     | 35     | 53     | 55     | 61     | <a href="#">MHQ0603P3N4BT000</a> |
| 3.4       | 3.4    | 3.5    | 3.5    | 3.6    | 27     | 35     | 53     | 55     | 61     | <a href="#">MHQ0603P3N4CT000</a> |
| 3.4       | 3.4    | 3.5    | 3.5    | 3.6    | 27     | 35     | 53     | 55     | 61     | <a href="#">MHQ0603P3N4ST000</a> |
| 3.5       | 3.5    | 3.6    | 3.6    | 3.7    | 25     | 33     | 50     | 52     | 57     | <a href="#">MHQ0603P3N5BT000</a> |
| 3.5       | 3.5    | 3.6    | 3.6    | 3.7    | 25     | 33     | 50     | 52     | 57     | <a href="#">MHQ0603P3N5CT000</a> |
| 3.5       | 3.5    | 3.6    | 3.6    | 3.7    | 25     | 33     | 50     | 52     | 57     | <a href="#">MHQ0603P3N5ST000</a> |
| 3.6       | 3.6    | 3.7    | 3.7    | 3.8    | 26     | 33     | 50     | 52     | 57     | <a href="#">MHQ0603P3N6BT000</a> |
| 3.6       | 3.6    | 3.7    | 3.7    | 3.8    | 26     | 33     | 50     | 52     | 57     | <a href="#">MHQ0603P3N6CT000</a> |
| 3.6       | 3.6    | 3.7    | 3.7    | 3.8    | 26     | 33     | 50     | 52     | 57     | <a href="#">MHQ0603P3N6ST000</a> |

### Measurement equipment

| Product No.  | Manufacturer          |
|--------------|-----------------------|
| 4291B+16193A | Keysight Technologies |

\* Equivalent measurement equipment may be used.



# MHQ0603P 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 |                                  |
| 3.7       | 3.7    | 3.8    | 3.8    | 3.9    | 26     | 34     | 51     | 52     | 58     | <a href="#">MHQ0603P3N7BT000</a> |
| 3.7       | 3.7    | 3.8    | 3.8    | 3.9    | 26     | 34     | 51     | 52     | 58     | <a href="#">MHQ0603P3N7CT000</a> |
| 3.7       | 3.7    | 3.8    | 3.8    | 3.9    | 26     | 34     | 51     | 52     | 58     | <a href="#">MHQ0603P3N7ST000</a> |
| 3.8       | 3.8    | 3.9    | 3.9    | 4.0    | 24     | 32     | 49     | 51     | 56     | <a href="#">MHQ0603P3N8BT000</a> |
| 3.8       | 3.8    | 3.9    | 3.9    | 4.0    | 24     | 32     | 49     | 51     | 56     | <a href="#">MHQ0603P3N8CT000</a> |
| 3.8       | 3.8    | 3.9    | 3.9    | 4.0    | 24     | 32     | 49     | 51     | 56     | <a href="#">MHQ0603P3N8ST000</a> |
| 3.9       | 3.9    | 4.0    | 4.1    | 4.2    | 23     | 30     | 47     | 49     | 54     | <a href="#">MHQ0603P3N9BT000</a> |
| 3.9       | 3.9    | 4.0    | 4.1    | 4.2    | 23     | 30     | 47     | 49     | 54     | <a href="#">MHQ0603P3N9CT000</a> |
| 3.9       | 3.9    | 4.0    | 4.1    | 4.2    | 23     | 30     | 47     | 49     | 54     | <a href="#">MHQ0603P3N9ST000</a> |
| 4.0       | 4.0    | 4.1    | 4.2    | 4.3    | 26     | 34     | 52     | 53     | 59     | <a href="#">MHQ0603P4N0BT000</a> |
| 4.0       | 4.0    | 4.1    | 4.2    | 4.3    | 26     | 34     | 52     | 53     | 59     | <a href="#">MHQ0603P4N0CT000</a> |
| 4.0       | 4.0    | 4.1    | 4.2    | 4.3    | 26     | 34     | 52     | 53     | 59     | <a href="#">MHQ0603P4N0ST000</a> |
| 4.1       | 4.1    | 4.2    | 4.3    | 4.4    | 23     | 30     | 46     | 48     | 52     | <a href="#">MHQ0603P4N1BT000</a> |
| 4.1       | 4.1    | 4.2    | 4.3    | 4.4    | 23     | 30     | 46     | 48     | 52     | <a href="#">MHQ0603P4N1CT000</a> |
| 4.1       | 4.1    | 4.2    | 4.3    | 4.4    | 23     | 30     | 46     | 48     | 52     | <a href="#">MHQ0603P4N1ST000</a> |
| 4.2       | 4.2    | 4.3    | 4.4    | 4.5    | 24     | 31     | 46     | 48     | 52     | <a href="#">MHQ0603P4N2BT000</a> |
| 4.2       | 4.2    | 4.3    | 4.4    | 4.5    | 24     | 31     | 46     | 48     | 52     | <a href="#">MHQ0603P4N2CT000</a> |
| 4.2       | 4.2    | 4.3    | 4.4    | 4.5    | 24     | 31     | 46     | 48     | 52     | <a href="#">MHQ0603P4N2ST000</a> |
| 4.3       | 4.3    | 4.4    | 4.5    | 4.6    | 25     | 33     | 49     | 51     | 56     | <a href="#">MHQ0603P4N3CT000</a> |
| 4.3       | 4.3    | 4.4    | 4.5    | 4.6    | 25     | 33     | 49     | 51     | 56     | <a href="#">MHQ0603P4N3ST000</a> |
| 4.3       | 4.3    | 4.4    | 4.5    | 4.6    | 25     | 33     | 49     | 51     | 56     | <a href="#">MHQ0603P4N3HT000</a> |
| 4.7       | 4.7    | 4.9    | 4.9    | 5.1    | 24     | 31     | 47     | 49     | 54     | <a href="#">MHQ0603P4N7CT000</a> |
| 4.7       | 4.7    | 4.9    | 4.9    | 5.1    | 24     | 31     | 47     | 49     | 54     | <a href="#">MHQ0603P4N7ST000</a> |
| 4.7       | 4.7    | 4.9    | 4.9    | 5.1    | 24     | 31     | 47     | 49     | 54     | <a href="#">MHQ0603P4N7HT000</a> |
| 5.1       | 5.1    | 5.3    | 5.4    | 5.5    | 25     | 32     | 49     | 51     | 56     | <a href="#">MHQ0603P5N1CT000</a> |
| 5.1       | 5.1    | 5.3    | 5.4    | 5.5    | 25     | 32     | 49     | 51     | 56     | <a href="#">MHQ0603P5N1ST000</a> |
| 5.1       | 5.1    | 5.3    | 5.4    | 5.5    | 25     | 32     | 49     | 51     | 56     | <a href="#">MHQ0603P5N1HT000</a> |
| 5.6       | 5.6    | 5.9    | 6.0    | 6.2    | 24     | 31     | 46     | 48     | 52     | <a href="#">MHQ0603P5N6CT000</a> |
| 5.6       | 5.6    | 5.9    | 6.0    | 6.2    | 24     | 31     | 46     | 48     | 52     | <a href="#">MHQ0603P5N6ST000</a> |
| 5.6       | 5.6    | 5.9    | 6.0    | 6.2    | 24     | 31     | 46     | 48     | 52     | <a href="#">MHQ0603P5N6HT000</a> |
| 6.2       | 6.2    | 6.6    | 6.7    | 7.0    | 21     | 28     | 42     | 43     | 47     | <a href="#">MHQ0603P6N2ST000</a> |
| 6.2       | 6.2    | 6.6    | 6.7    | 7.0    | 21     | 28     | 42     | 43     | 47     | <a href="#">MHQ0603P6N2HT000</a> |
| 6.8       | 6.8    | 7.2    | 7.4    | 7.7    | 22     | 28     | 43     | 44     | 48     | <a href="#">MHQ0603P6N8HT000</a> |
| 6.8       | 6.8    | 7.2    | 7.4    | 7.7    | 22     | 28     | 43     | 44     | 48     | <a href="#">MHQ0603P6N8JT000</a> |
| 7.5       | 7.5    | 8.1    | 8.3    | 8.8    | 24     | 30     | 44     | 45     | 48     | <a href="#">MHQ0603P7N5HT000</a> |
| 7.5       | 7.5    | 8.1    | 8.3    | 8.8    | 24     | 30     | 44     | 45     | 48     | <a href="#">MHQ0603P7N5JT000</a> |
| 8.2       | 8.2    | 8.9    | 9.2    | 9.7    | 21     | 27     | 39     | 40     | 42     | <a href="#">MHQ0603P8N2HT000</a> |
| 8.2       | 8.2    | 8.9    | 9.2    | 9.7    | 21     | 27     | 39     | 40     | 42     | <a href="#">MHQ0603P8N2JT000</a> |
| 9.1       | 9.2    | 9.9    | 10.2   | 10.9   | 23     | 29     | 42     | 44     | 46     | <a href="#">MHQ0603P9N1HT000</a> |
| 9.1       | 9.2    | 9.9    | 10.2   | 10.9   | 23     | 29     | 42     | 44     | 46     | <a href="#">MHQ0603P9N1JT000</a> |
| 10.0      | 10.0   | 11.0   | 11.0   | 12.0   | 22     | 28     | 41     | 42     | 43     | <a href="#">MHQ0603P10NHT000</a> |
| 10.0      | 10.0   | 11.0   | 11.0   | 12.0   | 22     | 28     | 41     | 42     | 43     | <a href="#">MHQ0603P10NJT000</a> |
| 11.0      | 11.0   | 12.0   | 13.0   | 14.0   | 21     | 27     | 37     | 38     | 39     | <a href="#">MHQ0603P11NHT000</a> |
| 11.0      | 11.0   | 12.0   | 13.0   | 14.0   | 21     | 27     | 37     | 38     | 39     | <a href="#">MHQ0603P11NJT000</a> |

### Measurement equipment

| Product No.  | Manufacturer          |
|--------------|-----------------------|
| 4291B+16193A | Keysight Technologies |

\* Equivalent measurement equipment may be used.



# MHQ0603P 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 |                                  |
| 12.0      | 12.0   | 14.0   | 14.0   | 16.0   | 23     | 29     | 41     | 41     | 41     | <a href="#">MHQ0603P12NHT000</a> |
| 12.0      | 12.0   | 14.0   | 14.0   | 16.0   | 23     | 29     | 41     | 41     | 41     | <a href="#">MHQ0603P12NJT000</a> |
| 13.0      | 13.0   | 15.0   | 16.0   | 18.0   | 21     | 27     | 36     | 36     | 36     | <a href="#">MHQ0603P13NHT000</a> |
| 13.0      | 13.0   | 15.0   | 16.0   | 18.0   | 21     | 27     | 36     | 36     | 36     | <a href="#">MHQ0603P13NJT000</a> |
| 15.0      | 15.0   | 18.0   | 19.0   | 21.0   | 23     | 29     | 37     | 37     | 36     | <a href="#">MHQ0603P15NHT000</a> |
| 15.0      | 15.0   | 18.0   | 19.0   | 21.0   | 23     | 29     | 37     | 37     | 36     | <a href="#">MHQ0603P15NJT000</a> |
| 16.0      | 16.0   | 19.0   | 20.0   | 23.0   | 22     | 28     | 37     | 37     | 35     | <a href="#">MHQ0603P16NHT000</a> |
| 16.0      | 16.0   | 19.0   | 20.0   | 23.0   | 22     | 28     | 37     | 37     | 35     | <a href="#">MHQ0603P16NJT000</a> |
| 18.0      | 18.0   | 22.0   | 24.0   | 28.0   | 23     | 28     | 36     | 35     | 33     | <a href="#">MHQ0603P18NHT000</a> |
| 18.0      | 18.0   | 22.0   | 24.0   | 28.0   | 23     | 28     | 36     | 35     | 33     | <a href="#">MHQ0603P18NJT000</a> |
| 20.0      | 21.0   | 26.0   | 28.0   | 34.0   | 22     | 27     | 33     | 32     | 27     | <a href="#">MHQ0603P20NHT000</a> |
| 20.0      | 21.0   | 26.0   | 28.0   | 34.0   | 22     | 27     | 33     | 32     | 27     | <a href="#">MHQ0603P20NJT000</a> |
| 22.0      | 23.0   | 29.0   | 32.0   | 40.0   | 23     | 29     | 34     | 33     | 28     | <a href="#">MHQ0603P22NHT000</a> |
| 22.0      | 23.0   | 29.0   | 32.0   | 40.0   | 23     | 29     | 34     | 33     | 28     | <a href="#">MHQ0603P22NJT000</a> |
| 24.0      | 25.0   | 34.0   | 38.0   | —      | 22     | 26     | 29     | 27     | —      | <a href="#">MHQ0603P24NHT000</a> |
| 24.0      | 25.0   | 34.0   | 38.0   | —      | 22     | 26     | 29     | 27     | —      | <a href="#">MHQ0603P24NJT000</a> |
| 27.0      | 28.0   | 38.0   | 44.0   | —      | 23     | 28     | 30     | 28     | —      | <a href="#">MHQ0603P27NHT000</a> |
| 27.0      | 28.0   | 38.0   | 44.0   | —      | 23     | 28     | 30     | 28     | —      | <a href="#">MHQ0603P27NJT000</a> |
| 30.0      | 32.0   | 47.0   | —      | —      | 22     | 27     | —      | —      | —      | <a href="#">MHQ0603P30NHT000</a> |
| 30.0      | 32.0   | 47.0   | —      | —      | 22     | 27     | —      | —      | —      | <a href="#">MHQ0603P30NJT000</a> |
| 33.0      | 35.0   | 55.0   | —      | —      | 22     | 27     | —      | —      | —      | <a href="#">MHQ0603P33NHT000</a> |
| 33.0      | 35.0   | 55.0   | —      | —      | 22     | 27     | —      | —      | —      | <a href="#">MHQ0603P33NJT000</a> |
| 36.0      | 38.0   | 67.0   | —      | —      | 22     | 26     | —      | —      | —      | <a href="#">MHQ0603P36NHT000</a> |
| 36.0      | 38.0   | 67.0   | —      | —      | 22     | 26     | —      | —      | —      | <a href="#">MHQ0603P36NJT000</a> |
| 39.0      | 42.0   | 79.0   | —      | —      | 23     | 26     | —      | —      | —      | <a href="#">MHQ0603P39NHT000</a> |
| 39.0      | 42.0   | 79.0   | —      | —      | 23     | 26     | —      | —      | —      | <a href="#">MHQ0603P39NJT000</a> |

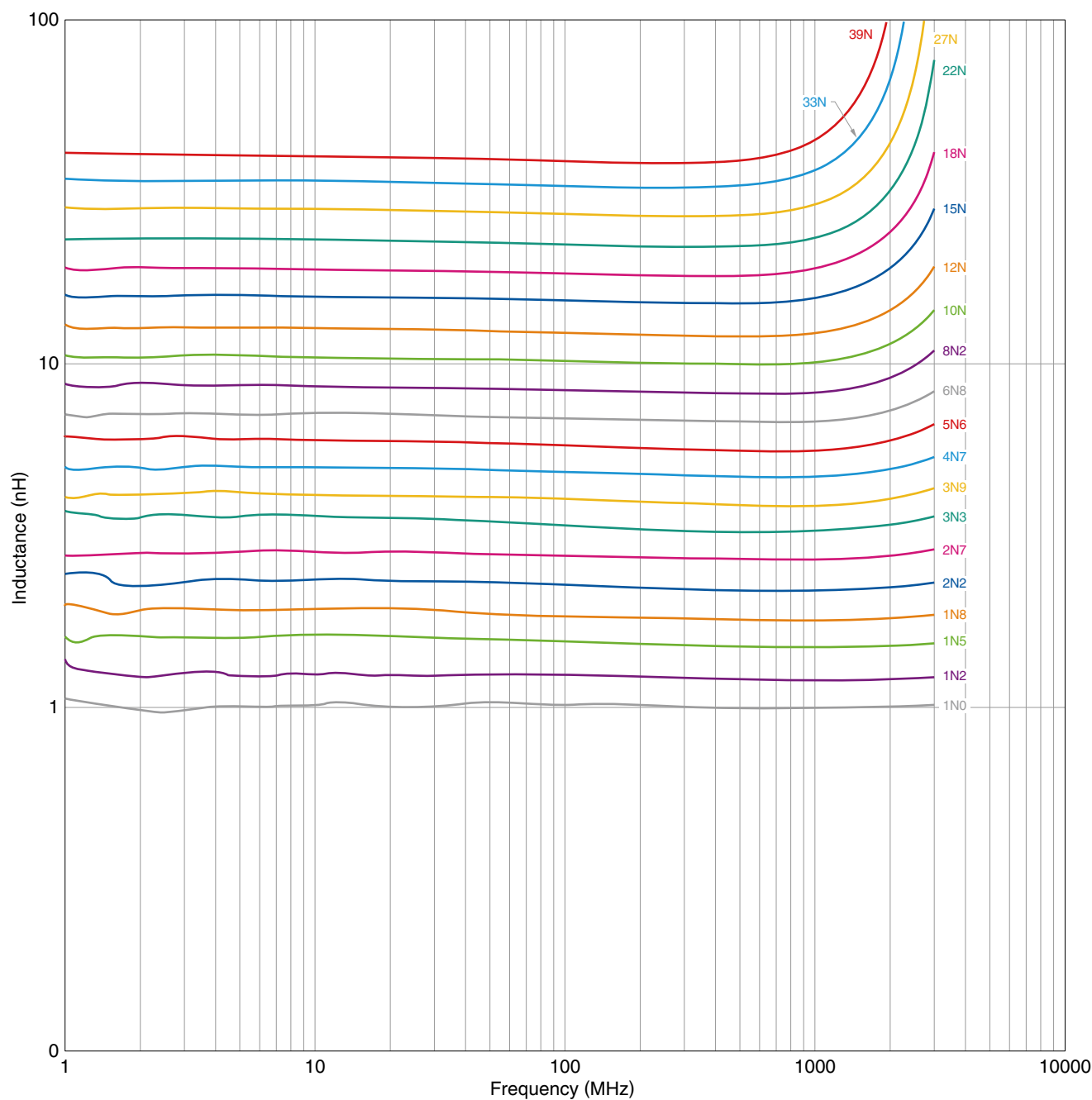
Measurement equipment

| Product No.  | Manufacturer          |
|--------------|-----------------------|
| 4291B+16193A | Keysight Technologies |

\* Equivalent measurement equipment may be used.

# MHQ0603P type

## L FREQUENCY CHARACTERISTICS (EXAMPLE)



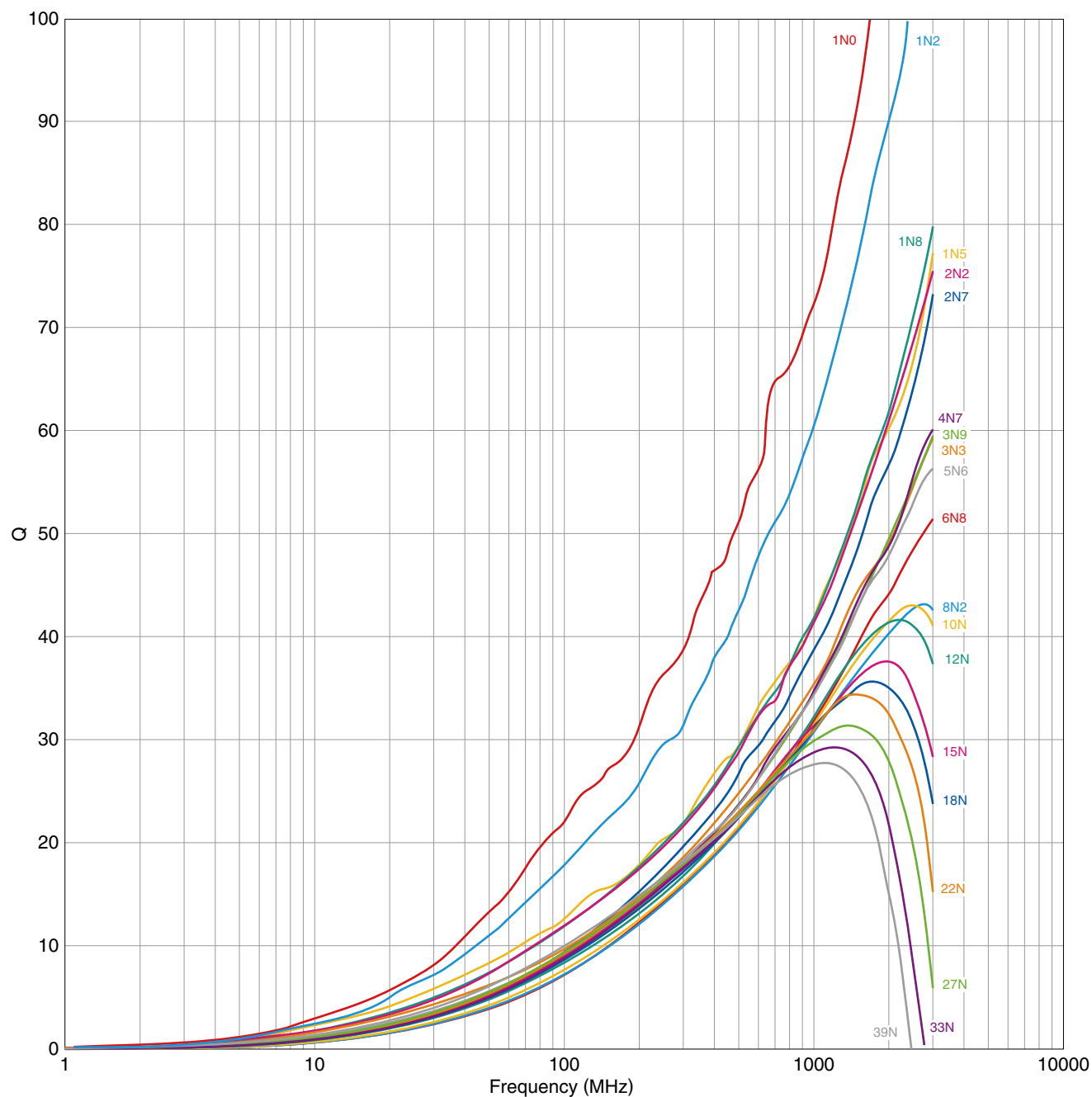
Measurement equipment

| Product No.  | Manufacturer          |
|--------------|-----------------------|
| E4991+16193A | Keysight Technologies |

\* Equivalent measurement equipment may be used.

# MHQ0603P type

## Q FREQUENCY CHARACTERISTICS (EXAMPLE)



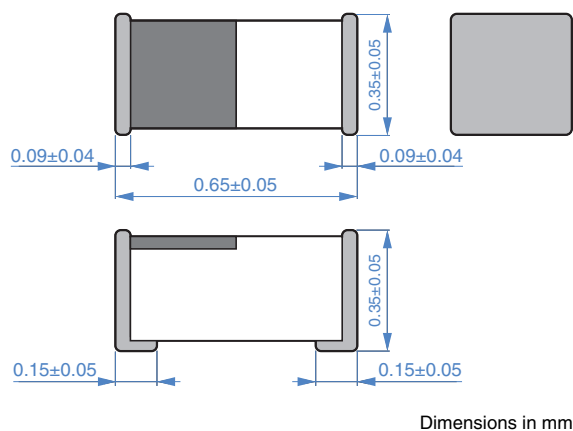
Measurement equipment

| Product No.  | Manufacturer          |
|--------------|-----------------------|
| E4991+16193A | Keysight Technologies |

\* Equivalent measurement equipment may be used.

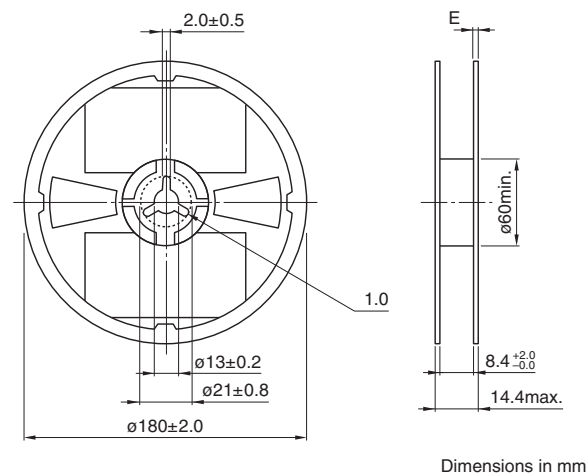
# MHQ0603P type

## SHAPE & DIMENSIONS

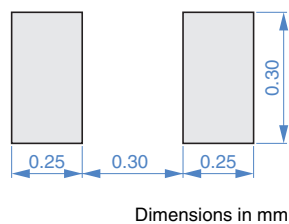


## PACKAGING STYLE

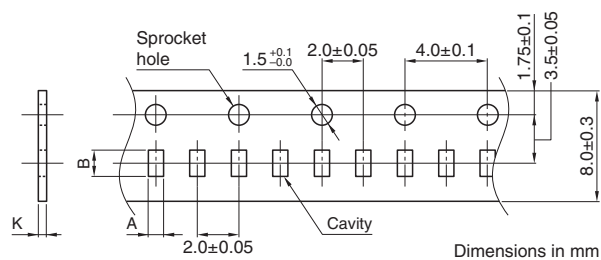
### REEL DIMENSIONS



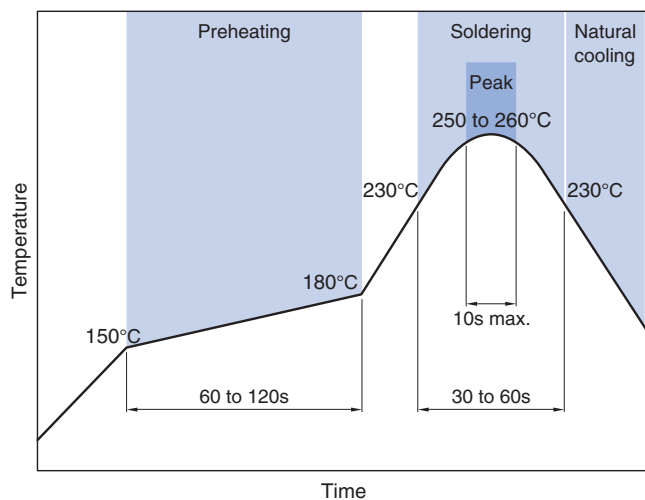
## RECOMMENDED LAND PATTERN



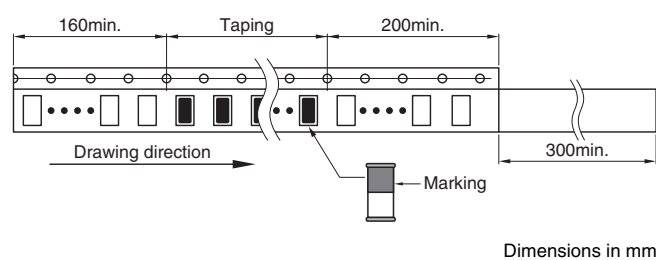
### TAPE DIMENSIONS



## RECOMMENDED REFLOW PROFILE



| Type     | A               | B               | K         |
|----------|-----------------|-----------------|-----------|
| MHQ0603P | $0.44 \pm 0.05$ | $0.74 \pm 0.05$ | 0.60 max. |



### PACKAGE QUANTITY

| Package quantity | 15000 pcs/reel |
|------------------|----------------|
|------------------|----------------|

## TEMPERATURE RANGE, INDIVIDUAL WEIGHT

| Operating temperature range | Storage temperature range* | Individual weight |
|-----------------------------|----------------------------|-------------------|
| -55 to +125 °C              | -55 to +125 °C             | 0.2 mg            |

\* The storage temperature range is for after the assembly.

## 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.