

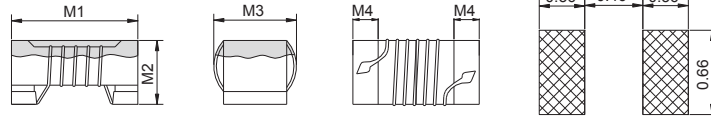
# 0402CQ Series

## ■ SMD Wire Wound Ceramic Chip Inductors

### MECHANICAL DIMENSIONS



0402CQ



Recommended Patterns

unit: mm

| Part Number | M1      | M2      | M3      | M4      |
|-------------|---------|---------|---------|---------|
| 0402CQ      | 1.0±0.1 | 0.5±0.1 | 0.6±0.1 | 0.2±0.1 |

### ELECTRICAL SPECIFICATION

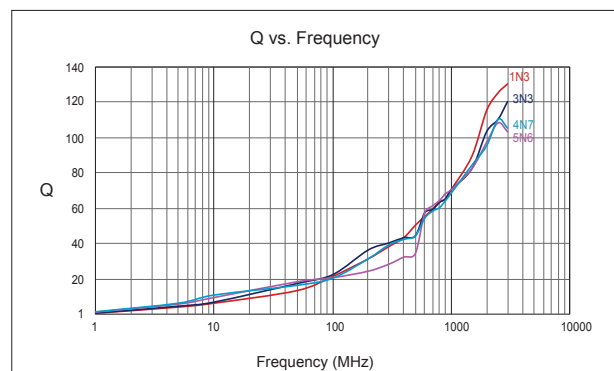
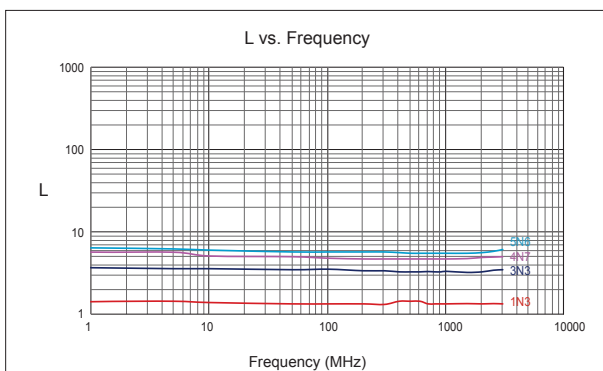
| Part Number       | Inductance (nH) | Inductance Tolerance | Inductance Test Frequency (MHz) | Rated Current (mA) | Max. of DC Resistance $\Omega$ | Q (min.) | Q Test Frequency (MHz) | Self-Resonance Frequency (min.) (GHz) |
|-------------------|-----------------|----------------------|---------------------------------|--------------------|--------------------------------|----------|------------------------|---------------------------------------|
| 0402CQ-1N3 □ -LRH | 1.3             | U, W                 | 100                             | 1200               | 0.017                          | 20       | 250                    | 16                                    |
| 0402CQ-1N4 □ -LRH | 1.4             | U, W                 | 100                             | 1100               | 0.019                          | 25       | 250                    | 15                                    |
| 0402CQ-2N2 □ -LRH | 2.2             | U, W                 | 100                             | 1000               | 0.027                          | 25       | 250                    | 14                                    |
| 0402CQ-2N3 □ -LRH | 2.3             | U, W                 | 100                             | 1000               | 0.027                          | 25       | 250                    | 14                                    |
| 0402CQ-2N4 □ -LRH | 2.4             | W                    | 100                             | 1000               | 0.027                          | 25       | 250                    | 14                                    |
| 0402CQ-3N3 □ -LRH | 3.3             | W                    | 100                             | 900                | 0.040                          | 30       | 250                    | 12                                    |
| 0402CQ-3N4 □ -LRH | 3.4             | U, W                 | 100                             | 900                | 0.040                          | 30       | 250                    | 12                                    |
| 0402CQ-3N5 □ -LRH | 3.5             | U, W                 | 100                             | 900                | 0.040                          | 30       | 250                    | 9.5                                   |
| 0402CQ-3N6 □ -LRH | 3.6             | U, W                 | 100                             | 900                | 0.040                          | 30       | 250                    | 9.5                                   |
| 0402CQ-3N8 □ -LRH | 3.8             | U, W                 | 100                             | 900                | 0.040                          | 30       | 250                    | 7                                     |
| 0402CQ-3N9 □ -LRH | 3.9             | W                    | 100                             | 900                | 0.040                          | 30       | 250                    | 7                                     |
| 0402CQ-4N0 □ -LRH | 4.0             | U, W                 | 100                             | 800                | 0.051                          | 30       | 250                    | 6.5                                   |
| 0402CQ-4N2 □ -LRH | 4.2             | U, W                 | 100                             | 800                | 0.051                          | 30       | 250                    | 6.5                                   |
| 0402CQ-4N7 □ -LRH | 4.7             | W                    | 100                             | 800                | 0.051                          | 30       | 250                    | 8                                     |
| 0402CQ-5N1 □ -LRH | 5.1             | U, W                 | 100                             | 800                | 0.051                          | 30       | 250                    | 8                                     |
| 0402CQ-5N2 □ -LRH | 5.2             | U, W                 | 100                             | 800                | 0.051                          | 30       | 250                    | 8                                     |
| 0402CQ-5N3 □ -LRH | 5.3             | U, W                 | 100                             | 800                | 0.051                          | 30       | 250                    | 8                                     |
| 0402CQ-5N4 □ -LRH | 5.4             | U, W                 | 100                             | 800                | 0.051                          | 30       | 250                    | 8                                     |
| 0402CQ-5N5 □ -LRH | 5.5             | U, W                 | 100                             | 800                | 0.051                          | 30       | 250                    | 8                                     |
| 0402CQ-5N6 □ -LRH | 5.6             | U, W                 | 100                             | 800                | 0.051                          | 30       | 250                    | 8                                     |
| 0402CQ-5N7 □ -LRH | 5.7             | U, W                 | 100                             | 800                | 0.051                          | 30       | 250                    | 8                                     |
| 0402CQ-5N9 □ -LRH | 5.9             | U, W                 | 100                             | 760                | 0.056                          | 30       | 250                    | 7.7                                   |
| 0402CQ-6N0 □ -LRH | 6.0             | U, W                 | 100                             | 760                | 0.056                          | 30       | 250                    | 7.7                                   |
| 0402CQ-6N1 □ -LRH | 6.1             | U, W                 | 100                             | 760                | 0.056                          | 30       | 250                    | 7.7                                   |
| 0402CQ-7N4 □ -LRH | 7.4             | U, W                 | 100                             | 750                | 0.058                          | 30       | 250                    | 6.8                                   |
| 0402CQ-7N6 □ -LRH | 7.6             | U, W                 | 100                             | 750                | 0.058                          | 30       | 250                    | 6.8                                   |
| 0402CQ-7N7 □ -LRH | 7.7             | U, W                 | 100                             | 750                | 0.058                          | 30       | 250                    | 6.8                                   |
| 0402CQ-7N8 □ -LRH | 7.8             | U, W                 | 100                             | 750                | 0.058                          | 30       | 250                    | 6.8                                   |
| 0402CQ-7N9 □ -LRH | 7.9             | U, W                 | 100                             | 640                | 0.079                          | 30       | 250                    | 7.5                                   |
| 0402CQ-8N0 □ -LRH | 8.0             | U, W                 | 100                             | 640                | 0.079                          | 30       | 250                    | 7.5                                   |
| 0402CQ-8N1 □ -LRH | 8.1             | U, W                 | 100                             | 640                | 0.079                          | 30       | 250                    | 7.5                                   |
| 0402CQ-8N3 □ -LRH | 8.3             | U, W                 | 100                             | 640                | 0.079                          | 30       | 250                    | 7.5                                   |
| 0402CQ-8N4 □ -LRH | 8.4             | U, W                 | 100                             | 640                | 0.079                          | 30       | 250                    | 7.5                                   |

- Tolerance: W=±0.5nH ; U=±0.2nH
- Operating Temp: -40°C to +125°C
- For 15°C Temperature Rise.

- Inductance & Q measured using the 4287A with 16197A
- SRF measured using the HP 8753E/HP4291B with 16193A/ENA5071C or its equivalent.
- DCR measured using the AGILENT zentech 502BC or its equivalent.
- Unspecified values available on request.

### CHARACTERISTIC CURVE

#### 0402CQ Series



SMD

Leaded