

# SMD WIRE WOUND CERAMIC CHIP INDUCTORS

FEC0603CP Series

## ■ Mechanical Dimensions (Unit: mm)



## ■ Electrical Specification

| Part Number.       | Inductance (nH) | Inductance Tolerance | Q (Min) | Test Freq. (MHz) | 900 (MHz) |        | 1.7 (GHz) |        | SRF (GHz) Min | DCR (Ω) Max | I <sub>rms</sub> (mA) | COLOR CODE |
|--------------------|-----------------|----------------------|---------|------------------|-----------|--------|-----------|--------|---------------|-------------|-----------------------|------------|
|                    |                 |                      |         |                  | L typ.    | Q typ. | L typ.    | Q typ. |               |             |                       |            |
| FEC0603CP-1N6□-LRH | 1.6             | J、K                  | 24      | 250              | 1.67      | 49     | 1.65      | 63     | 12.50         | 0.030       | 700                   | BLACK      |
| FEC0603CP-1N8□-LRH | 1.8             | J、K                  | 16      | 250              | 1.83      | 35     | 1.86      | 50     | 12.50         | 0.045       | 700                   | BROWN      |
| FEC0603CP-2N1□-LRH | 2.1             | J、K                  | 20      | 250              | 2.11      | 31     | 2.09      | 45     | 5.80          | 0.005       | 700                   | RED        |
| FEC0603CP-2N2□-LRH | 2.2             | J、K                  | 20      | 250              | 2.22      | 31     | 2.24      | 44     | 5.80          | 0.005       | 700                   | ORANGE     |
| FEC0603CP-3N3□-LRH | 3.3             | J、K                  | 20      | 250              | 3.31      | 75     | 3.38      | 88     | 5.50          | 0.070       | 700                   | VIOLET     |
| FEC0603CP-3N6□-LRH | 3.6             | J、K                  | 22      | 250              | 3.72      | 53     | 3.71      | 65     | 5.90          | 0.063       | 700                   | RED        |
| FEC0603CP-3N9□-LRH | 3.9             | J、K                  | 22      | 250              | 3.95      | 49     | 3.96      | 67     | 5.90          | 0.080       | 700                   | ORANGE     |
| FEC0603CP-4N3□-LRH | 4.3             | J、K                  | 22      | 250              | 4.32      | 50     | 4.33      | 70     | 5.90          | 0.063       | 700                   | YELLOW     |
| FEC0603CP-4N7□-LRH | 4.7             | J、K                  | 20      | 250              | 4.72      | 47     | 4.75      | 57     | 5.80          | 0.116       | 700                   | GREEN      |
| FEC0603CP-5N1□-LRH | 5.1             | J、K                  | 20      | 250              | 4.93      | 47     | 4.95      | 56     | 5.70          | 0.140       | 700                   | BLUE       |
| FEC0603CP-5N6□-LRH | 5.6             | J、K                  | 20      | 250              | 5.77      | 63     | 6.05      | 80     | 5.80          | 0.150       | 700                   | GRAY       |
| FEC0603CP-6N1□-LRH | 6.1             | J、K                  | 25      | 250              | 5.90      | 59     | 7.08      | 79     | 5.80          | 0.110       | 700                   | WHITE      |
| FEC0603CP-6N8□-LRH | 6.8             | G、J、K                | 27      | 250              | 6.75      | 60     | 7.10      | 81     | 5.80          | 0.110       | 700                   | VIOLET     |
| FEC0603CP-7N5□-LRH | 7.5             | G、J、K                | 28      | 250              | 7.70      | 60     | 7.82      | 85     | 4.80          | 0.106       | 700                   | GRAY       |
| FEC0603CP-8N2□-LRH | 8.2             | G、J、K                | 25      | 250              | 8.25      | 82     | 8.37      | 87     | 5.80          | 0.120       | 700                   | BLACK      |
| FEC0603CP-8N4□-LRH | 8.4             | G、J、K                | 28      | 250              | 8.39      | 79     | 8.51      | 85     | 4.60          | 0.109       | 700                   | RED        |
| FEC0603CP-8N5□-LRH | 8.5             | G、J、K                | 28      | 250              | 8.47      | 81     | 8.62      | 86     | 4.60          | 0.109       | 700                   | RED        |
| FEC0603CP-8N7□-LRH | 8.7             | G、J                  | 28      | 250              | 8.86      | 62     | 9.32      | 58     | 4.60          | 0.109       | 700                   | WHITE      |
| FEC0603CP-9N5□-LRH | 9.5             | G、J                  | 28      | 250              | 9.70      | 59     | 9.92      | 61     | 5.40          | 0.135       | 700                   | BLACK      |
| FEC0603CP-10N□-LRH | 10              | G、J                  | 31      | 250              | 10.00     | 66     | 10.6      | 83     | 4.80          | 0.130       | 700                   | BROWN      |
| FEC0603CP-11N□-LRH | 11              | G、J                  | 33      | 250              | 11.00     | 53     | 11.5      | 56     | 4.00          | 0.086       | 700                   | RED        |
| FEC0603CP-12N□-LRH | 12              | G、J                  | 35      | 250              | 12.30     | 72     | 13.5      | 83     | 4.00          | 0.130       | 700                   | ORANGE     |
| FEC0603CP-14N□-LRH | 14              | G、J                  | 35      | 250              | 14.20     | 69     | 15.6      | 85     | 4.00          | 0.170       | 700                   | BROWN      |
| FEC0603CP-15N□-LRH | 15              | G、J                  | 35      | 250              | 15.40     | 64     | 16.8      | 89     | 4.00          | 0.170       | 700                   | YELLOW     |
| FEC0603CP-16N□-LRH | 16              | G、J                  | 34      | 250              | 16.20     | 55     | 17.3      | 52     | 3.30          | 0.104       | 700                   | GREEN      |
| FEC0603CP-18N□-LRH | 18              | G、J                  | 35      | 250              | 18.70     | 70     | 21.4      | 69     | 3.10          | 0.170       | 700                   | BLUE       |
| FEC0603CP-22N□-LRH | 22              | G、J                  | 38      | 250              | 22.80     | 73     | 26.1      | 71     | 3.00          | 0.190       | 700                   | VIOLET     |
| FEC0603CP-23N□-LRH | 23              | G、J                  | 38      | 250              | 24.10     | 71     | 28.0      | 67     | 2.85          | 0.190       | 700                   | BLACK      |
| FEC0603CP-24N□-LRH | 24              | G、J                  | 37      | 250              | 24.50     | 45     | 28.7      | 39     | 2.65          | 0.135       | 700                   | GRAY       |
| FEC0603CP-27N□-LRH | 27              | G、J                  | 40      | 250              | 29.20     | 74     | 34.6      | 65     | 2.80          | 0.220       | 600                   | WHITE      |
| FEC0603CP-30N□-LRH | 30              | G、J                  | 37      | 250              | 31.40     | 47     | 39.9      | 28     | 2.25          | 0.144       | 600                   | BLACK      |
| FEC0603CP-33N□-LRH | 33              | G、J                  | 40      | 250              | 36.00     | 67     | 49.5      | 42     | 2.30          | 0.220       | 600                   | BROWN      |
| FEC0603CP-36N□-LRH | 36              | G、J                  | 38      | 250              | 39.40     | 47     | 52.7      | 24     | 2.08          | 0.250       | 600                   | RED        |
| FEC0603CP-39N□-LRH | 39              | G、J                  | 40      | 250              | 42.70     | 60     | 60.2      | 40     | 2.20          | 0.250       | 600                   | ORANGE     |
| FEC0603CP-43N□-LRH | 43              | G、J                  | 39      | 250              | 47.00     | 44     | 64.9      | 21     | 2.00          | 0.280       | 600                   | YELLOW     |
| FEC0603CP-47N□-LRH | 47              | G、J                  | 38      | 200              | 52.20     | 62     | 77.2      | 35     | 2.00          | 0.280       | 600                   | GREEN      |
| FEC0603CP-51N□-LRH | 51              | G、J                  | 35      | 200              | 55.50     | 69     | 82.2      | 34     | 1.90          | 0.270       | 600                   | BROWN      |
| FEC0603CP-56N□-LRH | 56              | G、J                  | 38      | 200              | 62.50     | 56     | 97.0      | 26     | 1.90          | 0.310       | 600                   | BLUE       |
| FEC0603CP-68N□-LRH | 68              | G、J                  | 37      | 200              | 80.50     | 54     | 168       | 21     | 1.70          | 0.340       | 600                   | VIOLET     |
| FEC0603CP-72N□-LRH | 72              | G、J                  | 34      | 150              | 82.00     | 53     | 135       | 20     | 1.70          | 0.490       | 400                   | GRAY       |
| FEC0603CP-82N□-LRH | 82              | G、J                  | 34      | 150              | 96.20     | 54     | 177       | 21     | 1.70          | 0.540       | 400                   | WHITE      |
| FEC0603CP-R10□-LRH | 100             | G、J                  | 34      | 150              | 124       | 49     | -         | -      | 1.40          | 0.580       | 400                   | BLACK      |
| FEC0603CP-R11□-LRH | 110             | G、J                  | 32      | 150              | 138       | 43     | -         | -      | 1.35          | 0.610       | 300                   | BROWN      |
| FEC0603CP-R12□-LRH | 120             | G、J                  | 32      | 150              | 166       | 39     | -         | -      | 1.30          | 0.650       | 300                   | RED        |
| FEC0603CP-R15□-LRH | 150             | G、J                  | 28      | 150              | 250       | 25     | -         | -      | 0.990         | 0.920       | 280                   | ORANGE     |

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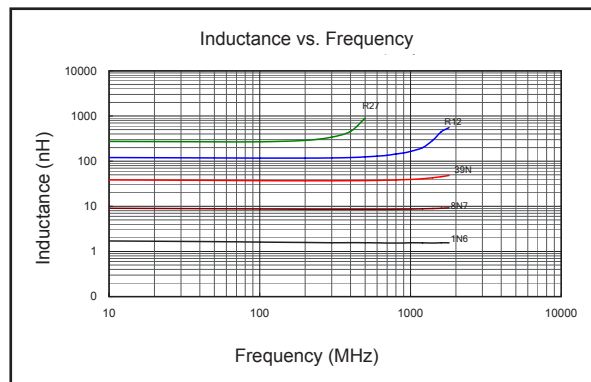
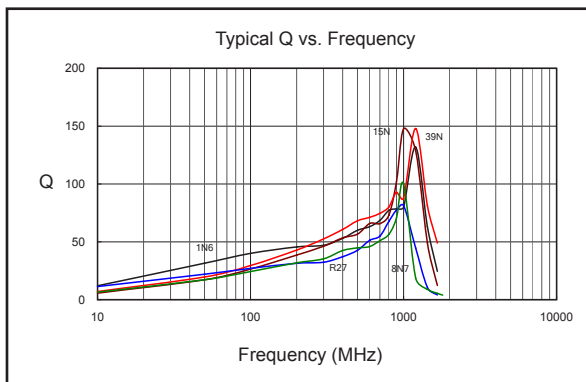
## FEC0603CP Series

| Part Number.       | Inductance (nH) | Inductance Tolerance | Q (Min) | Test Freq. (MHz) | 900 (MHz) |        | 1.7 (GHz) |        | SRF (GHz) Min | DCR (Ω) Max | I <sub>rms</sub> (mA) | COLOR CODE |
|--------------------|-----------------|----------------------|---------|------------------|-----------|--------|-----------|--------|---------------|-------------|-----------------------|------------|
|                    |                 |                      |         |                  | L typ.    | Q typ. | L typ.    | Q typ. |               |             |                       |            |
| FEC0603CP-R18□-LRH | 180             | G \ J                | 25      | 100              | 305       | 22     | -         | -      | 0.990         | 1.250       | 240                   | YELLOW     |
| FEC0603CP-R20□-LRH | 200             | G \ J                | 25      | 100              | -         | -      | -         | -      | 0.990         | 1.980       | 200                   | RED        |
| FEC0603CP-R21□-LRH | 210             | G \ J                | 27      | 100              | -         | -      | -         | -      | 0.895         | 2.060       | 200                   | ORANGE     |
| FEC0603CP-R22□-LRH | 220             | G \ J                | 25      | 100              | -         | -      | -         | -      | 0.900         | 1.900       | 200                   | GREEN      |
| FEC0603CP-R25□-LRH | 250             | G \ J                | 25      | 100              | -         | -      | -         | -      | 0.822         | 3.550       | 120                   | YELLOW     |
| FEC0603CP-R27□-LRH | 270             | G \ J                | 24      | 100              | -         | -      | -         | -      | 0.900         | 2.300       | 170                   | BLUE       |
| FEC0603CP-R33□-LRH | 330             | G \ J                | 24      | 100              | -         | -      | -         | -      | 0.900         | 2.300       | 100                   | VIOLET     |
| FEC0603CP-R39□-LRH | 390             | G \ J                | 25      | 100              | -         | -      | -         | -      | 0.900         | 4.350       | 100                   | GRAY       |

- a. Tolerance :K=±10% ; J=±5% ; G=±2%
- b. Operating Temp :-40°C to +125°C
- c. For 15 : Temperature Rise.
- d. Inductance & Q measured using the HP4291B.
- e. SRF measured using the HP8753E, or HP8720D .
- f. DCR measured using the 16502 milli-ohm meter.
- g. Unspecified values available on request

### ■ Characteristic Curve

· FEC0603CP



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