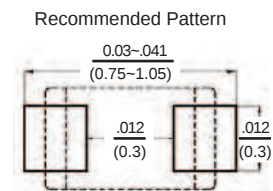
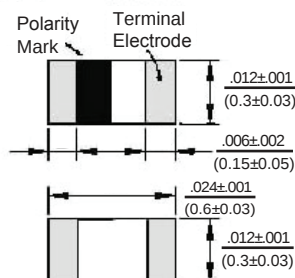




# 0201 High Frequency Ceramic Chip Inductor HFC02



Dimensions:  $\frac{\text{Inches}}{\text{(mm)}}$



| Allied Part Number | Inductance (nh) @100MHz | Tolerance (%) | Q @100MHz | SRF (MHz) | DCR Max. (Ω) | IDC Max. (mA) |
|--------------------|-------------------------|---------------|-----------|-----------|--------------|---------------|
| HFC02-1N0S-RC      | 1.0                     | 0.3nh         | 4         | 10000     | 0.11         | 470           |
| HFC02-1N2S-RC      | 1.2                     | 0.3nh         | 4         | 10000     | 0.12         | 450           |
| HFC02-1N5S-RC      | 1.5                     | 0.3nh         | 4         | 8000      | 0.13         | 430           |
| HFC02-1N8S-RC      | 1.8                     | 0.3nh         | 4         | 8000      | 0.16         | 390           |
| HFC02-2N0S-RC      | 2.0                     | 0.3nh         | 4         | 8000      | 0.17         | 380           |
| HFC02-2N2S-RC      | 2.2                     | 0.3nh         | 4         | 8000      | 0.19         | 360           |
| HFC02-2N4S-RC      | 2.4                     | 0.3nh         | 4         | 8000      | 0.20         | 350           |
| HFC02-2N7S-RC      | 2.7                     | 0.3nh         | 4         | 7200      | 0.21         | 340           |
| HFC02-3N0S-RC      | 3.0                     | 0.3nh         | 4         | 6200      | 0.22         | 330           |
| HFC02-3N3S-RC      | 3.3                     | 0.3nh         | 4         | 6200      | 0.23         | 320           |
| HFC02-3N6S-RC      | 3.6                     | 0.3nh         | 4         | 5200      | 0.25         | 310           |
| HFC02-3N9S-RC      | 3.9                     | 0.3nh         | 4         | 5000      | 0.27         | 300           |
| HFC02-4N3S-RC      | 4.3                     | 0.3nh         | 4         | 4750      | 0.30         | 280           |
| HFC02-4N7S-RC      | 4.7                     | 0.3nh         | 4         | 4750      | 0.30         | 280           |
| HFC02-5N1S-RC      | 5.1                     | 0.3nh         | 4         | 4100      | 0.33         | 270           |
| HFC02-5N6S-RC      | 5.6                     | 0.3nh         | 4         | 4100      | 0.36         | 260           |
| HFC02-6N2S-RC      | 6.2                     | 0.3nh         | 4         | 4100      | 0.38         | 250           |
| HFC02-6N8J-RC      | 6.8                     | 5             | 4         | 3750      | 0.39         | 250           |
| HFC02-7N5J-RC      | 7.5                     | 5             | 4         | 3750      | 0.41         | 240           |
| HFC02-8N2J-RC      | 8.2                     | 5             | 4         | 3300      | 0.45         | 230           |
| HFC02-9N1J-RC      | 9.1                     | 5             | 4         | 3300      | 0.48         | 220           |
| HFC02-10NJ-RC      | 10                      | 5             | 4         | 3000      | 0.51         | 220           |
| HFC02-12NJ-RC      | 12                      | 5             | 4         | 2800      | 0.68         | 190           |
| HFC02-15NJ-RC      | 15                      | 5             | 4         | 2600      | 0.71         | 180           |
| HFC02-18NJ-RC      | 18                      | 5             | 4         | 2500      | 0.81         | 170           |
| HFC02-22NJ-RC      | 22                      | 5             | 4         | 2400      | 1.00         | 150           |
| HFC02-27NJ-RC      | 27                      | 5             | 4         | 2000      | 1.35         | 120           |
| HFC02-33NJ-RC      | 33                      | 5             | 4         | 1900      | 1.47         | 110           |
| HFC02-39NK-RC      | 39                      | 5             | 4         | 1600      | 1.72         | 100           |
| HFC02-47NJ-RC      | 47                      | 5             | 4         | 1400      | 1.90         | 100           |
| HFC02-56NJ-RC      | 56                      | 5             | 4         | 1300      | 2.27         | 80            |
| HFC02-68NJ-RC      | 68                      | 5             | 4         | 1100      | 2.66         | 80            |
| HFC02-82NJ-RC      | 82                      | 5             | 4         | 1050      | 3.37         | 70            |
| HFC02-R10J-RC      | 100                     | 5             | 4         | 1050      | 3.74         | 60            |

All specifications subject to change without notice.

## Features

- 0201 EIA size for high board density applications.
- Excellent SRF characteristics exceeding 10Ghz
- Expanded inductance range

## Electrical

**Inductance range:** 1.0nh to 100nh

**Tolerance:** 1.0nH to 6.2nH=±.3nH, 6.8nH to 100nH=±+%

**Test Frequency:** 100MHz

**Operating Temp:** -55°C to +125°C

**Rated Current:** The current at which the temp will not ride by more than 30°C. Part temperature should not exceed 125°C including temperature rise.

## Resistance to solder heat:

Pre heat: 150°C. 1min.

Solder composition:

Sn/Ag3.0/Cu.0.5

Solder temp: 260°C±5°C

Immersion time: 10 sec ± 1 sec.

## Test Equipment:

L/Q: E4991A Agilent with 16197A

DCR: HP4338B/CH502BC

SRF: HP E4991A/HP19196C

## Physical

**Packaging:** 15000 pieces per 7 inch reel.