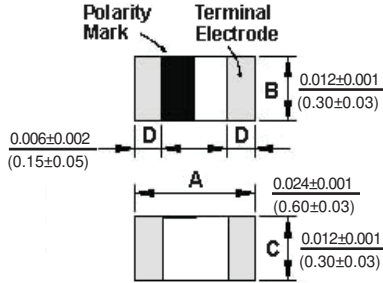




# High Frequency, High Q Chip Inductor

# HFQ02

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



Allied Part Number	Inductance (nH)	Tolerance Designator	Q Min.	L,Q Test Freq. (MHz)	SRF Min. (MHz)	RDC Max. (Ω)	IDC Max (mA)
HFQ02-0N6_-RC	0.6	B, C, S	14	500MHz, 500mV	10000	0.06	900
HFQ02-0N7_-RC	0.7	B, C, S	14	500MHz, 500mV	10000	0.06	900
HFQ02-0N8_-RC	0.8	B, C, S	14	500MHz, 500mV	10000	0.06	900
HFQ02-0N9_-RC	0.9	B, C, S	14	500MHz, 500mV	10000	0.06	900
HFQ02-1N0_-RC	1.0	B, C, S	14	500MHz, 500mV	10000	0.07	850
HFQ02-1N1_-RC	1.1	B, C, S	14	500MHz, 500mV	10000	0.07	850
HFQ02-1N2_-RC	1.2	B, C, S	14	500MHz, 500mV	10000	0.08	800
HFQ02-1N3_-RC	1.3	B, C, S	14	500MHz, 500mV	10000	0.09	760
HFQ02-1N4_-RC	1.4	B, C, S	14	500MHz, 500mV	10000	0.12	640
HFQ02-1N5_-RC	1.5	B, C, S	14	500MHz, 500mV	10000	0.15	600
HFQ02-1N6_-RC	1.6	B, C, S	14	500MHz, 500mV	10000	0.19	510
HFQ02-1N7_-RC	1.7	B, C, S	14	500MHz, 500mV	10000	0.11	680
HFQ02-1N8_-RC	1.8	B, C, S	14	500MHz, 500mV	10000	0.12	640
HFQ02-1N9_-RC	1.9	B, C, S	14	500MHz, 500mV	10000	0.13	620
HFQ02-2N0_-RC	2.0	B, C, S	14	500MHz, 500mV	10000	0.15	600
HFQ02-2N1_-RC	2.1	B, C, S	14	500MHz, 500mV	10000	0.16	550
HFQ02-2N2_-RC	2.2	B, C, S	14	500MHz, 500mV	10000	0.20	500
HFQ02-2N3_-RC	2.3	B, C, S	14	500MHz, 500mV	10000	0.24	460
HFQ02-2N4_-RC	2.4	B, C, S	14	500MHz, 500mV	10000	0.26	430
HFQ02-2N5_-RC	2.5	B, C, S	14	500MHz, 500mV	10000	0.28	415
HFQ02-2N6_-RC	2.6	B, C, S	14	500MHz, 500mV	10000	0.30	405
HFQ02-2N7_-RC	2.7	B, C, S	14	500MHz, 500mV	10000	0.32	400
HFQ02-2N8_-RC	2.8	B, C, S	14	500MHz, 500mV	9500	0.20	500
HFQ02-2N9_-RC	2.9	B, C, S	14	500MHz, 500mV	9300	0.22	480
HFQ02-3N0_-RC	3.0	B, C, S	14	500MHz, 500mV	9100	0.24	460
HFQ02-3N1_-RC	3.1	B, C, S	14	500MHz, 500mV	8900	0.25	450
HFQ02-3N2_-RC	3.2	B, C, S	14	500MHz, 500mV	8700	0.28	415
HFQ02-3N3_-RC	3.3	B, C, S	14	500MHz, 500mV	8600	0.28	415
HFQ02-3N4_-RC	3.4	B, C, S	14	500MHz, 500mV	8400	0.29	410
HFQ02-3N5_-RC	3.5	B, C, S	14	500MHz, 500mV	8200	0.30	405
HFQ02-3N6_-RC	3.6	B, C, S	14	500MHz, 500mV	8100	0.32	400
HFQ02-3N7_-RC	3.7	B, C, S	14	500MHz, 500mV	8000	0.36	370
HFQ02-3N8_-RC	3.8	B, C, S	14	500MHz, 500mV	7800	0.40	355
HFQ02-3N9_-RC	3.9	B, C, S	14	500MHz, 500mV	7700	0.41	350
HFQ02-4N0_-RC	4.0	B, C, S	14	500MHz, 500mV	7600	0.44	335
HFQ02-4N1_-RC	4.1	B, C, S	14	500MHz, 500mV	7500	0.48	320
HFQ02-4N2_-RC	4.2	B, C, S	14	500MHz, 500mV	7300	0.48	320
HFQ02-4N3_-RC	4.3	C, S	14	500MHz, 500mV	6500	0.48	320
HFQ02-4N6_-RC	4.6	C, S	14	500MHz, 500mV	6500	0.39	360
HFQ02-4N7_-RC	4.7	C, S	14	500MHz, 500mV	6400	0.42	350
HFQ02-5N0_-RC	5.0	C, S	14	500MHz, 500mV	6200	0.44	335
HFQ02-5N1_-RC	5.1	C, S	14	500MHz, 500mV	6100	0.45	330
HFQ02-5N4_-RC	5.4	C, S	14	500MHz, 500mV	5900	0.40	315
HFQ02-5N6_-RC	5.6	C, S	14	500MHz, 500mV	5500	0.47	325
HFQ02-5N9_-RC	5.9	C, S	14	500MHz, 500mV	5500	0.47	325
HFQ02-6N2_-RC	6.2	C, S	14	500MHz, 500mV	5100	0.52	305
HFQ02-6N5_-RC	6.5	C, S	14	500MHz, 500mV	5100	0.52	305
HFQ02-6N8_-RC	6.8	H, J	14	500MHz, 500mV	4800	0.55	305
HFQ02-7N1_-RC	7.1	H, J	14	500MHz, 500mV	4800	0.55	305

### Features

- 0201 EIA Size SMD
- Available in several Inductances Tolerances
- High Frequency
- High “Q”
- Marked for Polarity
- Multi layer Technology

### Electrical

**Inductance Range:** .6nH to 22nH  
**Tolerance:** Available in: B= ±0.1nH, C= ±0.2nH, S= ±0.3nH, H= ±3%, J= ±5%  
**Operating Temp:** -55°C ~ 125°C  
**Storage Temp:** -55°C ~ +125°C (after assembly)  
 -5°C ~ +40°C @ 40%~70% Humidity (before assembly)  
**Rated Current:** Based on 10% Inductance drop from the initial value.

### Solderability

Pre-Heat 150°C, 1 minute  
 Solder Composition: Sn/Ag3.0/Cu0.5  
 Peak Temp: 245°C ± 5°C for 4 sec.± 1sec.  
 Minimum of 95% of Electrode covered with solder.

### Physical

**Packaging:** 15000 pieces per 7 inch reel.  
**Marking:** Polarity Mark

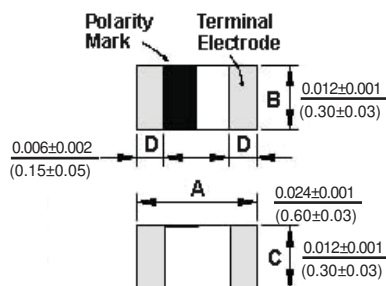
To complete part number insert tolerance designator: B=±0.1nH, C=±0.2nH, S=±0.3nH, H=±3%, J=±5%  
 All specifications subject to change without notice.



## High Frequency, High Q Chip Inductor

## HFQ02

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



Allied Part Number	Inductance (nH)	Tolerance Designator	Q Min.	L,Q Test Freq. (MHz)	SRF Min. (MHz)	RDC Max. ( $\Omega$ )	IDC Max (mA)
HFQ02-7N5_-RC	7.5	H, J	14	500MHz, 500mV	4600	0.55	305
HFQ02-7N8_-RC	7.8	H, J	14	500MHz, 500mV	4600	0.51	310
HFQ02-8N2_-RC	8.2	H, J	14	500MHz, 500mV	4300	0.57	290
HFQ02-8N5_-RC	8.5	H, J	14	500MHz, 500mV	4300	0.57	290
HFQ02-9N1_-RC	9.1	H, J	14	500MHz, 500mV	4000	0.65	270
HFQ02-9N4_-RC	9.4	H, J	14	500MHz, 500mV	4000	0.73	250
HFQ02-10N_-RC	10	H, J	14	500MHz, 500mV	3800	0.85	230
HFQ02-12N_-RC	12	H, J	14	500MHz, 500mV	3300	0.85	230
HFQ02-15N_-RC	15	H, J	14	500MHz, 500mV	2600	0.89	220
HFQ02-18N_-RC	18	H, J	14	500MHz, 500mV	2300	1.08	205
HFQ02-22N_-RC	22	H, J	14	500MHz, 500mV	1900	1.29	190

To complete part number insert tolerance designator: B= $\pm 0.1$ nH, C= $\pm 0.2$ nH, S= $\pm 0.3$ nH, H= $\pm 3\%$ , J= $\pm 5\%$   
All specifications subject to change without notice.

### Features

- 0201 EIA Size SMD
- Available in several Inductances Tolerances
- High Frequency
- High "Q"
- Marked for Polarity
- Multi layer Technology

### Electrical

Inductance Range: .6nH to 22nH  
 Tolerance: Available in: B=  $\pm 0.1$ nH, C=  $\pm 0.2$ nH, S=  $\pm 0.3$ nH, H=  $\pm 3\%$ , J=  $\pm 5\%$   
 Operating Temp: -55°C ~ 125°C  
 Storage Temp: -55°C ~ +125°C (after assembly)  
 -5°C ~ +40°C @ 40%~70% Humidity (before assembly)  
 Rated Current: Based on 10% Inductance drop from the initial value.

### Solderability

Pre-Heat 150°C, 1 minute  
 Solder Composition: Sn/Ag3.0/Cu0.5  
 Peak Temp: 245°C  $\pm$  5°C for 4 sec.  $\pm$  1sec.  
 Minimum of 95% of Electrode covered with solder.

### Physical

Packaging: 15000 pieces per 7 inch reel.  
 Marking: Polarity Mark