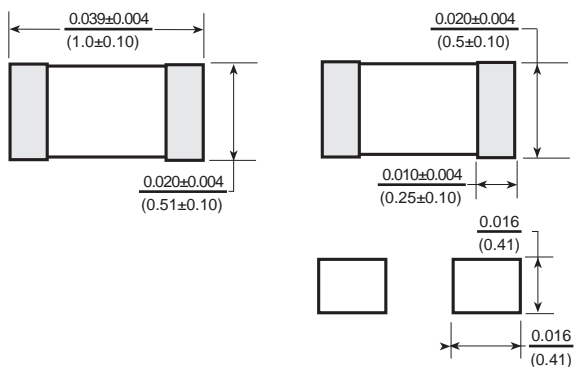


HFC03 High Frequency Chip Inductors



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



Features

- 0402 EIA size for high board density applications.
- Excellent Q and SRF characteristics for high frequency applications.
- Cost effective monolithic construction

Electrical

Inductance range: 1.0nh to 100nh

Tolerance: Available as noted. Insert letter for desired tolerance

Test Frequency: Inductance and Q tested at 100MHz, 200mv with HP4291A Impedance Analyzer
Inductance vs Freq. Characteristics measured on HP4291A
Q vs Frequency Characteristics measured on HP4291A
SRF measured on HPE4991 & HP87530
DCR measured on Chen Hwa CH502BC or HP4338B

Mechanical

Operating Temperature: -55°C-125°C

Storage Temperature: Under 25°C, Humidity 40% - 65%

Solderability: 90% terminal coverage

Test Condition: Pre heat:150°C. 1min. Solder composition:

Sn/Ag3.0/Cu.0.5 (Pb free)

Solder temp: 245°C±5°C (pb Free)

Immersion time: 4 ± 1 sec.

Resistance to solder heat:

No damage to part

Test Condition

Pre heat: 150°C. 1min.

Solder composition:

Sn/Ag3.0/Cu.0.5 (Pb free)

Solder temp: 260°C±5°C (pb Free)

Immersion time: 10 ± 1 sec.

Physical

Packaging: 10000 pieces per 7 inch reel.

Allied Part Number	Inductance (nh) @100MHz	Tolerance (%)	Q Min	SRF Typical (MHz)	DCR Max. (Ω)	IDC Max. (mA)
HFC03-1N0S-RC	1.0	0.3nH	8	10000	0.07	400
HFC03-1N2S-RC	1.2	0.3nH	8	10000	0.09	400
HFC03-1N5S-RC	1.5	0.3nH	8	9000	0.10	400
HFC03-1N8S-RC	1.8	0.3nH	8	8700	0.10	400
HFC03-2N0S-RC	2.0	0.3nH	8	8100	0.10	400
HFC03-2N2S-RC	2.2	0.3nH	8	8100	0.12	400
HFC03-2N4S-RC	2.4	0.3nH	8	7700	0.15	400
HFC03-2N7S-RC	2.7	0.3nH	8	7700	0.15	400
HFC03-3N0S-RC	3.0	0.3nH	8	6300	0.15	400
HFC03-3N3_-RC	3.3	0.3nH,10	8	6300	0.15	400
HFC03-3N6_-RC	3.6	0.3nH,10	8	6100	0.15	400
HFC03-3N9_-RC	3.9	0.3nH,10	8	6100	0.18	400
HFC03-4N3_-RC	4.3	0.3nH,10	8	6000	0.18	400
HFC03-4N7_-RC	4.7	0.3nH,10	8	6000	0.18	400
HFC03-5N6_-RC	5.6	0.3nH,10	8	5100	0.20	400
HFC03-6N8_-RC	6.8	5,10	8	4550	0.24	400
HFC03-8N2_-RC	8.2	5,10	8	4100	0.24	300
HFC03-10N_-RC	10	5,10	8	3900	0.26	300
HFC03-12N_-RC	12	5,10	8	3000	0.40	300
HFC03-15N_-RC	15	5,10	8	2800	0.50	300
HFC03-18N_-RC	18	5,10	8	2500	0.55	300
HFC03-22N_-RC	22	5,10	8	2200	0.70	300
HFC03-27N_-RC	27	5,10	8	2000	0.80	300
HFC03-33N_-RC	33	5,10	8	1800	0.90	200
HFC03-39N_-RC	39	5,10	8	1600	1.00	150
HFC03-47N_-RC	47	5,10	8	1400	1.20	150
HFC03-56N_-RC	56	5,10	8	1300	1.30	150
HFC03-68N_-RC	68	5,10	8	1100	1.50	100
HFC03-82N_-RC	82	5,10	8	1000	1.60	100
HFC03-100N_-RC	100	5,10	8	900	2.00	100

*Insert letter for desired tolerance. S=±0.3%, J=5%, K=10%

All specifications subject to change without notice