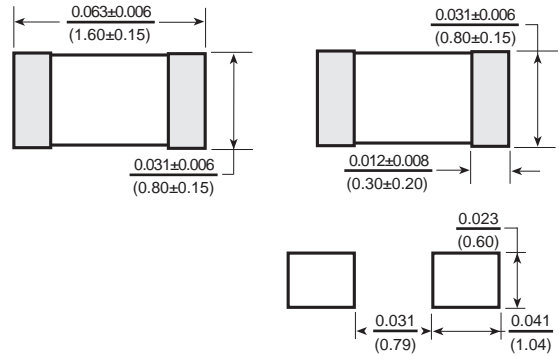




High Frequency Chip Inductors HFC05

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



Allied Part Number	Inductance (nh) @100MHz	Tolerance Designator	Q Min	SRF Typical (MHz)	DCR Max. (Ω)	IDC Max. (mA)
HFC05-1N0_-RC	1.0	S	8	10000	0.10	600
HFC05-1N2_-RC	1.2	S	8	10000	0.10	600
HFC05-1N5_-RC	1.5	S	8	8000	0.10	600
HFC05-1N6_-RC	1.6	C,S	8	8000	0.10	600
HFC05-1N7_-RC	1.7	C,S	8	8000	0.10	600
HFC05-1N8_-RC	1.8	S	8	8000	0.10	600
HFC05-2N2_-RC	2.2	S	8	7200	0.10	600
HFC05-2N5_-RC	2.5	C,S	8	6200	0.10	600
HFC05-2N7_-RC	2.7	S	10	6200	0.10	600
HFC05-3N3_-RC	3.3	S,K	10	5200	0.12	600
HFC05-3N9_-RC	3.9	S,K	10	5000	0.14	600
HFC05-4N3_-RC	4.3	S,K	10	4750	0.16	600
HFC05-4N7_-RC	4.7	S,K	10	4750	0.16	600
HFC05-5N1_-RC	5.1	S,K	10	4100	0.18	600
HFC05-5N4_-RC	5.4	C,S	8	4100	0.18	600
HFC05-5N6_-RC	5.6	S,K	10	4100	0.18	600
HFC05-6N2_-RC	6.2	J,K	10	3750	0.22	600
HFC05-6N8_-RC	6.8	J,K	10	3750	0.22	600
HFC05-7N5_-RC	7.5	J,K	10	3300	0.24	600
HFC05-8N2_-RC	8.2	J,K	10	3300	0.24	600
HFC05-10N_-RC	10	J,K	12	3000	0.26	600
HFC05-11N5_-RC	11.5	J,K	8	2800	0.30	1000
HFC05-12N_-RC	12	J,K	12	2600	0.28	600
HFC05-15N_-RC	15	J,K	12	2500	0.32	600
HFC05-18N_-RC	18	J,K	12	2400	0.35	600
HFC05-22N_-RC	22	J,K	12	2000	0.40	500
HFC05-27N_-RC	27	J,K	12	1900	0.45	500
HFC05-33N_-RC	33	J,K	12	1600	0.55	400
HFC05-39N_-RC	39	J,K	12	1400	0.60	400
HFC05-47N_-RC	47	J,K	12	1300	0.70	400
HFC05-56N_-RC	56	J,K	12	1100	0.75	400
HFC05-62N_-RC	62	J,K	12	1050	0.85	400
HFC05-68N_-RC	68	J,K	12	1050	0.85	400
HFC05-75N_-RC	75	J,K	12	900	1.00	300
HFC05-82N_-RC	82	J,K	12	900	1.00	300
HFC05-100N_-RC	100	J,K	12	770	1.20	300
HFC05-120N_-RC	*120	J,K	8	650	1.30	300
HFC05-150N_-RC	*150	J,K	8	550	1.70	250
HFC05-180N_-RC	*180	J,K	8	520	1.90	250
HFC05-220N_-RC	*220	J,K	8	500	2.00	250
HFC05-270N_-RC	***270	J,K	8	470	2.20	150
HFC05-330N_-RC	*330	J,K	8	320	2.80	100
HFC05-390N_-RC	*390	J,K	8	300	3.00	100

*at 50MHz. **at 300MHz. ***at 500MHz.

To complete part number insert tolerance designator: C=±0.2nH, S=±0.3nH, J=±5%, K=±10%.

Additional Inductance values available upon request.

All specifications subject to change without notice.

Features

- 0603 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 390nh

Tolerance: use S for ± .3nh, J for 5%, K for 10%

Test Frequency: Inductance and Q tested at 100MHz, 200mv with HP4191A Impedance Analyzer + HP16197A Inductance vs Freq. Characteristics measured on HP4191A Q vs Frequency Characteristics measured on HP4191A SRF measured with HP4291A & HP16197A

DCR measured with Chen Hwa CH502BC or HP4338B

IDC measured with HP4291-A + HP6632A

IDC: The current at which the temp. will not rise by no more than 30°C above ambient.

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: 4000 pieces per 7 inch reel.