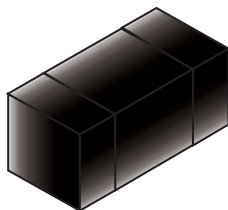
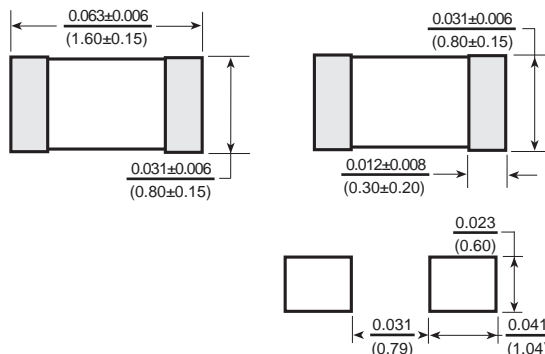




High Frequency Chip Inductors HFC05



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



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 $\pm .3$ nh, 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

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 \pm 5°C (pb Free)

Immersion time: 4 \pm 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 \pm 5°C (pb Free)

Immersion time: 10 \pm 1 sec.

Physical

Packaging: 4000 pieces per 7 inch reel.

Allied Part Number	Inductance (nh) @100MHz	Tolerance (%)	Q Min	SRF Typical (MHz)	DCR Max. (Ω)	IDC Max. (mA)
HFC05-1N0S-RC	1.0	0.3nh	8	10000	0.10	600
HFC05-1N2S-RC	1.2	0.3nh	8	10000	0.10	600
HFC05-1N5S-RC	1.5	0.3nh	8	8000	0.10	600
HFC05-1N8S-RC	1.8	0.3nh	8	8000	0.10	600
HFC05-2N2S-RC	2.2	0.3nh	8	7200	0.10	600
HFC05-2N7S-RC	2.7	0.3nh	10	6200	0.10	600
HFC05-3N3K-RC	3.3	10	10	5200	0.12	600
HFC05-3N9K-RC	3.9	10	10	5000	0.14	600
HFC05-4N7K-RC	4.7	10	10	4750	0.16	600
HFC05-5N6K-RC	5.6	10	10	4100	0.18	600
HFC05-6N8K-RC	6.8	10	10	3750	0.22	600
HFC05-8N2K-RC	8.2	10	10	3300	0.24	600
HFC05-10NK-RC	10	10	12	3000	0.26	600
HFC05-12NK-RC	12	10	12	2600	0.28	600
HFC05-15NK-RC	15	10	12	2500	0.32	600
HFC05-18NK-RC	18	10	12	2400	0.35	600
HFC05-22NK-RC	22	10	12	2000	0.40	500
HFC05-27NK-RC	27	10	12	1900	0.45	500
HFC05-33NK-RC	33	10	12	1600	0.55	400
HFC05-39NK-RC	39	10	12	1400	0.60	400
HFC05-47NK-RC	47	10	12	1300	0.70	400
HFC05-56NK-RC	56	10	12	1100	0.75	400
HFC05-62NK-RC	62	10	12	1050	0.85	400
HFC05-68NK-RC	68	10	12	1050	0.85	400
HFC05-82NK-RC	82	10	12	900	1.00	300
HFC05-100NK-RC	100	10	12	770	1.20	300
HFC05-120NK-RC	*120	10	8	650	1.30	300
HFC05-150NK-RC	*150	10	8	550	1.70	250
HFC05-180NK-RC	*180	10	8	520	1.90	250
HFC05-220NK-RC	*220	10	8	500	2.00	250
HFC05-270NK-RC	***270	10	8	470	2.20	150
HFC05-330NK-RC	*330	10	8	320	2.80	100
HFC05-390NK-RC	*390	10	8	300	3.00	100

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

Additional Inductance values available upon request.
All specifications subject to change without notice.