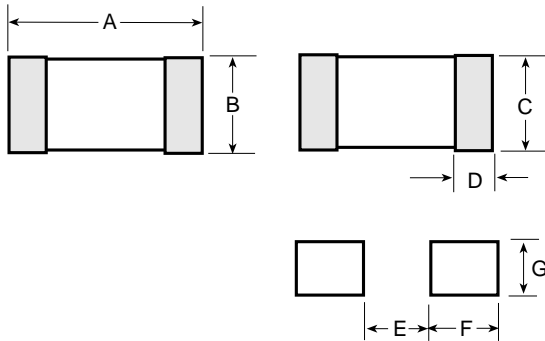
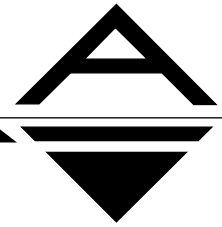


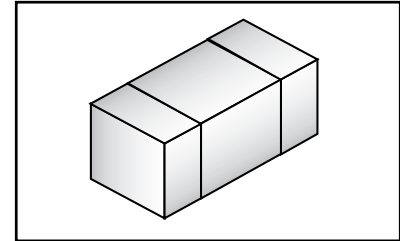
HFC03 High Frequency Chip Inductors



Dimensions (In.)

HFC03

A	.039 ± .006
B	.020 ± .006
C	.020 ± .006
D	.010 ± .006
E	.016
F	.018
G	.016



Electrical

Inductance: Measured at 100MHz.

Q vs. Frequency Characteristics: Measured on Impedance Analyzer HP-4291A.

Impedance vs. Frequency Characteristics: Measured on Impedance Analyzer HP-4291A.

Tolerance: For 10% use K, 5% use J and +/- .3nh use S as part number suffix.

Mechanical

Solderability: 90% terminal coverage. Solder: H63A. Solder Temp.: 230 ± 5°C. Flux: rosin. Dip time: 3 ± 1 sec.

Soldering Heat Resistance: The chip shall not crack. More than 75% of the terminal electrode shall be covered with solder. Solder: H63A (Eutectic Solder). Solder Temp.: 260 ± 5°C. Flux: Rosin. Dip Time: 10 ± 1 seconds.

Environmental

Thermal Shock: Inductance shall be within ±5% of initial value. Q shall be within ± 30% of initial value within temp. range of -40°C to + 85°C for 30 min. each for > 100 cycles.

Humidity Resistance: Same results as above. Temp. 4°C. Humidity: 95% RH. Time: 1000 hrs.

High Temp Resistance: Same results as above. Temp: 85°C. Time: 1000 hrs.

Low Temp Resistance: Same results as above. Temp: -40°C. Time: 1000 hrs.

Operating Temp.: -40°C to +100°C.

Storage Temp.: -55°C to +100°C.

Physical

Packaging: 10000 pieces per 7 inch reel.

Allied Part Number	Inductance (nh)	Tolerance (%)	Q Typical @100MHz	Q Typical @800MHz	SRF Min. (MHz)	DCR Max. (Ω)	Rated Current (mA)
HFC03-1N0S	1.0	0.3 nh	9	28	6000	0.10	300
HFC03-1N2S	1.2	0.3 nh	9	28	6000	0.10	300
HFC03-1N5S	1.5	0.3 nh	10	28	6000	0.10	300
HFC03-1N8S	1.8	0.3 nh	10	28	6000	0.10	300
HFC03-2N2S	2.2	0.3 nh	10	29	6000	0.12	300
HFC03-2N7S	2.7	0.3 nh	11	30	6000	0.12	300
HFC03-3N3K	3.3	10	11	30	5200	0.15	300
HFC03-3N9K	3.9	10	11	31	5150	0.15	300
HFC03-4N7K	4.7	10	11	31	4800	0.18	300
HFC03-5N6K	5.6	10	11	31	4100	0.20	300
HFC03-6N8K	6.8	10	11	33	3800	0.25	300
HFC03-8N2K	8.2	10	12	32	3500	0.25	300
HFC03-10NK	10	10	12	32	3300	0.30	300
HFC03-12NK	12	10	12	31	2600	0.30	300
HFC03-15NK	15	10	12	30	2300	0.40	300
HFC03-18NK	18	10	12	29	2050	0.50	300
HFC03-22NK	22	10	12	28	1900	0.60	300
HFC03-27NK	27	10	12	27	1700	0.70	300
HFC03-33NK	33	10	10	25	1550	1.50	200
HFC03-39NK	39	10	10	25	1450	1.80	200
HFC03-47NK	47	10	9	22	1300	2.00	200
HFC03-56NK	56	10	10	21	1250	2.00	200
HFC03-100NK	100	10	9	3	850	2.50	100

Self Resonant Frequency measured by HP8753C. All specifications subject to change without notice.

ALLIED COMPONENTS INTERNATIONAL

14712 SINCLAIR CIRCLE TUSTIN, CALIFORNIA 92780 714/665-1140 800/295-3800 FAX 714/665-1150