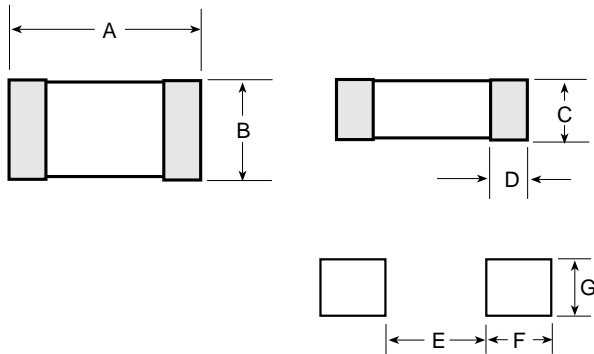
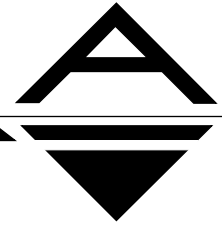


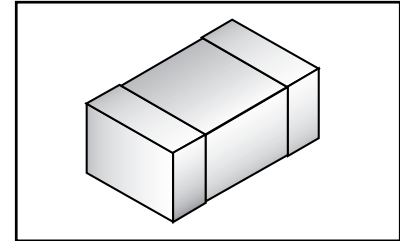
# HFC10 High Frequency Chip Inductors



## Dimensions (In.)

### HFC10

A	.079 ± .008
B	.049 ± .008
C	.035 ± .008
C*	.047 ± .012
D	.020 ± .012
E	.047
F	.045
G	.039



### 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:** 1.5nh - 150nh, 4000 pieces per reel.  
180nh - 470nh, 3000 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)
HFC10-1N5S	1.5	0.3 nh	13	40	6000	0.10	500
HFC10-1N8S	1.8	0.3 nh	13	45	6000	0.10	500
HFC10-2N2S	2.2	0.3 nh	13	48	6000	0.10	500
HFC10-2N7S	2.7	0.3 nh	13	40	6000	0.10	500
HFC10-3N3K	3.3	10	15	56	6000	0.13	500
HFC10-3N9K	3.9	10	15	54	5400	0.15	500
HFC10-4N7K	4.7	10	15	50	4500	0.20	500
HFC10-5N6K	5.6	10	15	53	4000	0.23	500
HFC10-6N8K	6.8	10	15	51	3650	0.25	500
HFC10-8N2K	8.2	10	15	53	3000	0.28	500
HFC10-10NK	10	10	16	45	2500	0.30	500
HFC10-12NK	12	10	16	48	2450	0.35	400
HFC10-15NK	15	10	17	48	2000	0.40	400
HFC10-18NK	18	10	17	43	1750	0.45	400
HFC10-22NK	22	10	17	47	1700	0.50	400
HFC10-27NK	27	10	18	38	1550	0.55	400
HFC10-33NK	33	10	19	35	1350	0.60	400
HFC10-39NK	39	10	21	40	1300	0.65	400
HFC10-47NK	47	10	21	38	1200	0.70	400
HFC10-56NK	56	10	21	31	1150	0.75	400
HFC10-68NK	68	10	21	28	1000	0.80	400
HFC10-82NK	82	10	22	16	850	0.90	400
HFC10-100NK	100	10	23		730	1.00	400
HFC10-120NK	120	10	22		650	1.20	300
HFC10-150NK	150	10	22		550	1.40	300
HFC10-180NK*	180	10	23		500	1.60	300
HFC10-220NK*	220	10	20		450	1.80	300
HFC10-270NK*	270	10	20		400	2.00	300
HFC10-330NK*	330	10	22		380	3.00	300
HFC10-390NK*	390	10	17		330	3.50	300
HFC10-470NK*	470	10	17		300	4.00	300

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