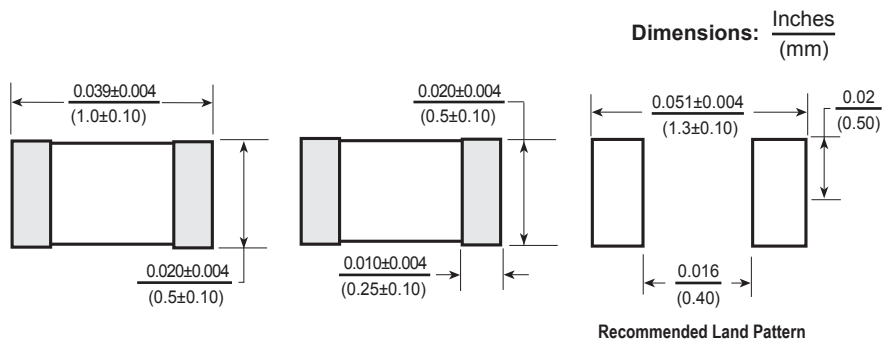


HFC03 High Frequency Chip Inductors



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 270nH

Tolerance: Available as noted. Insert letter for desired tolerance

Test Frequency: Inductance and Q tested at 100MHz.

Inductance and Q Measured on Agilent E491A and 16197A

SRF measured on HP8753D

DCR measured on HP4338B

IDC: Applied current to coils, inductance shall be less than 10% initial value.

Mechanical

Operating Temperature: -55°C to +125°C

Storage Temperature: -5°C to +40°C

Humidity 40% - 70% (before PCB)

Solderability: 95% 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 piece reel

Allied Part Number	Inductance (nH) @100KHz	Tolerance (±%) *	Q Min	SRF Typical (MHz)	DCR Max (Ω)	IDC Max (mA)
HFC03-1N0S-RC	1.0	S	8	10000	0.07	400
HFC03-1N1S-RC	1.1	S	8	10000	0.10	400
HFC03-1N2S-RC	1.2	S	8	10000	0.09	400
HFC03-1N3S-RC	1.3	S	8	9000	0.10	400
HFC03-1N5S-RC	1.5	S	8	9000	0.10	400
HFC03-1N6S-RC	1.6	S	8	8700	0.10	400
HFC03-1N8S-RC	1.8	S	8	8700	0.10	400
HFC03-2N0S-RC	2.0	S	8	8100	0.10	400
HFC03-2N2S-RC	2.2	S	8	8100	0.12	400
HFC03-2N4S-RC	2.4	S	8	7700	0.15	400
HFC03-2N7S-RC	2.7	S	8	7700	0.15	400
HFC03-3N0S-RC	3.0	S	8	6300	0.15	400
HFC03-3N3 _RC	3.3	S, K	8	6300	0.15	400
HFC03-3N6 _RC	3.6	S, K	8	6100	0.15	400
HFC03-3N9 _RC	3.9	S, K	8	6100	0.18	400
HFC03-4N3 _RC	4.3	S, K	8	6000	0.18	400
HFC03-4N7 _RC	4.7	S, K	8	6000	0.18	400
HFC03-5N0 _RC	5.0	S, K	8	5100	0.20	400
HFC03-5N1 _RC	5.1	S, K	8	5300	0.20	400
HFC03-5N6 _RC	5.6	S, K	8	5100	0.20	400
HFC03-6N8 _RC	6.8	J, K	8	4550	0.24	400
HFC03-8N0 _RC	8.0	J, K	8	4100	0.30	300
HFC03-8N2 _RC	8.2	J, K	8	4100	0.24	300
HFC03-9N1 _RC	9.1	J, K	8	3900	0.26	300
HFC03-100 _RC	10	J, K	8	3900	0.26	300
HFC03-120 _RC	12	J, K	8	3000	0.40	300
HFC03-150 _RC	15	J, K	8	2800	0.50	300
HFC03-180 _RC	18	J, K	8	2500	0.55	300
HFC03-220 _RC	22	J, K	8	2200	0.70	300
HFC03-240 _RC	24	J, K	8	2100	0.70	300
HFC03-270 _RC	27	J, K	8	2000	0.80	300
HFC03-330 _RC	33	J, K	8	1800	0.90	200
HFC03-390 _RC	39	J, K	8	1600	1.00	150
HFC03-470 _RC	47	J, K	8	1400	1.20	150
HFC03-560 _RC	56	J, K	8	1300	1.30	150
HFC03-680 _RC	68	J, K	8	1100	1.50	100
HFC03-750 _RC	75	J, K	8	1080	1.50	100
HFC03-820 _RC	82	J, K	8	1000	1.60	100
HFC03-101 _RC	100	J, K	8	900	2.00	100
HFC03-121 _RC	120	J, K	8	800	2.20	100
HFC03-151 _RC	150	J, K	8	700	3.50	100
HFC03-181 _RC	180	J, K	8	600	3.80	100
HFC03-221 _RC	220	J, K	8	500	4.20	100
HFC03-271 _RC	270	J, K	8	500	4.80	100

*Insert letter for desired tolerance. S=±0.3nH, J=±5%, K=±10%
All specifications subject to change without notice.