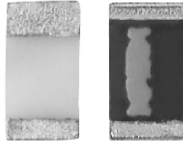


## Thin Film Chip Inductors



### FEATURES

- Tight tolerance
- Self-resonant frequency controlled within 10 %
- Stable inductance over high frequencies
- Compatible with reflow or flow soldering
- Temperature range: - 40 °C to + 125 °C (no load)  
- 40 °C to + 85 °C (full rated current)
- Compliant to RoHS directive 2002/95/EC

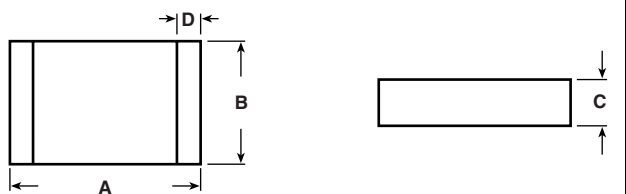


### APPLICATIONS

- Cellular telephone, pagers and GPS products
- Wireless LAN and other communication appliances
- VCO, TCXO circuit and RF transceiver module

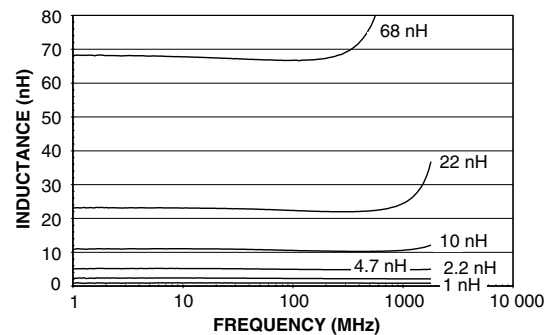
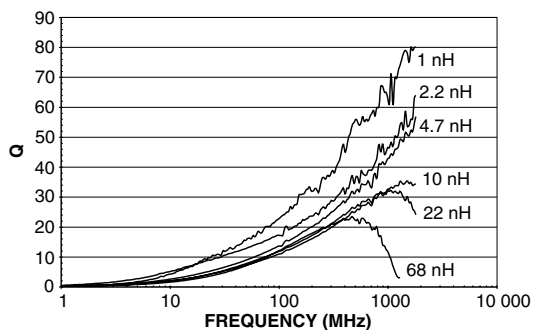
STANDARD ELECTRICAL SPECIFICATIONS							
L 500 MHz (nH)	L TOL.	Q TYPICAL			SRF TYP. (MHz)	DCR MAX. (Ω)	RATED DC CURRENT (mA)
		100 MHz	800 MHz	1700 MHz			
1.0	0.3 nH	13	34	49	13 000	0.35	800
1.2	0.3 nH	13	34	49	13 000	0.35	800
1.5	0.3 nH	13	34	49	10 000	0.35	800
1.8	0.3 nH	13	34	49	10 000	0.35	300
2.2	0.3 nH	13	34	49	8000	0.35	300
2.7	0.3 nH	13	34	49	6000	0.45	300
3.3	0.3 nH	13	34	49	6000	0.45	300
3.9	0.3 nH	13	34	49	6000	0.45	300
4.7	0.3 nH	13	34	41	5000	0.55	300
5.6	0.3 nH	13	34	41	5000	0.65	300
6.8	0.3 nH	13	34	41	5000	0.75	300
8.2	0.3 nH	13	34	41	4000	0.95	300
10	2%, 5%	13	34	30	4000	0.95	300
12	2%, 5%	13	30	30	3000	1.05	300
15	2%, 5%	13	30	30	3000	1.35	300
18	2%, 5%	13	30	25	2000	1.65	300
22	2%, 5%	13	30	25	2000	1.95	250
27	2%, 5%	10	45	25	2000	2.35	250
33	2%, 5%	10	45	6	1500	2.75	250
39	2%, 5%	10	45	1	1500	3.00	200
47	2%, 5%	10	45	1	1500	3.00	200
56	2%, 5%	10	26	4	1000	5.00	150
68	2%, 5%	10	26	6	1000	5.00	150

### DIMENSIONS in inches [millimeters]



MODEL	A	B	C	D
IFCB-0603	0.063±0.004 [1.60 ± 0.10]	0.031±0.004 [0.80 ± 0.10]	0.018±0.004 [0.45 ± 0.10]	0.012±0.008 [0.30 ± 0.20]

### PERFORMANCE GRAPHS: INDUCTANCE AND Q VS. FREQUENCY



### DESCRIPTION

IFCB-0603	10 nH	± 5 %	ER	e3
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC LEAD (Pb)-FREE STANDARD

### GLOBAL PART NUMBER

I	F	C	B	0	6	0	3	E	R	1	0	N	J
PRODUCT FAMILY				SIZE				PACKAGE CODE		INDUCTANCE VALUE			TOL.



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