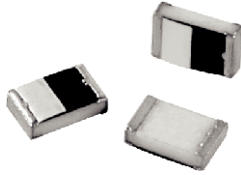


## High Q/SRF, Low Value Chip Inductors



### FEATURES

- High reliability
- Surface mountable
- High self-resonant frequency
- 2 % tolerance available
- Temperature range: - 40 °C to + 125 °C (no load)  
- 40 °C to + 85 °C (full rated current)
- Compliant to RoHS directive 2002/95/EC


**RoHS**  
COMPLIANT

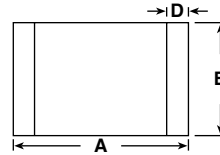
### STANDARD ELECTRICAL SPECIFICATIONS

L 100 MHz (nH)	L TOL.	Q TYPICAL			SRF TYP. (MHz)	DCR MAX. (Ω)	RATED DC CURRENT (mA)
		100 MHz	800 MHz	1700 MHz			
1.5	0.3 nH	18	57	125	> 15 000	0.04	1000
1.8	0.3 nH	12	45	58	> 15 000	0.06	1000
2.2	0.3 nH	12	45	68	> 15 000	0.09	1000
2.7	0.3 nH	12	46	71	12 000	0.11	1000
3.3	5%, 10%	12	46	67	11 000	0.13	1000
3.9	5%, 10%	15	55	80	9000	0.13	500
4.7	5%, 10%	15	53	78	7000	0.16	500
5.6	5%, 10%	13	53	80	6500	0.17	500
6.8	5%, 10%	14	53	65	4800	0.20	500
8.2	5%, 10%	15	50	77	3600	0.25	500
10	5%, 10%	13	48	67	3500	0.36	500
12	5%, 10%	14	48	68	3400	0.41	500
15	5%, 10%	15	48	59	3100	0.49	400
18	5%, 10%	14	48	48	2550	0.69	400
22	5%, 10%	16	39	-	1750	0.70	400
27	5%, 10%	16	41	-	1600	0.95	300
33	5%, 10%	16	39 <sup>(1)</sup>	-	1300	1.1	300
39	5%, 10%	18	32 <sup>(1)</sup>	-	1200	1.1	300
47	5%, 10%	17	30 <sup>(1)</sup>	-	1060	1.2	300

#### Notes

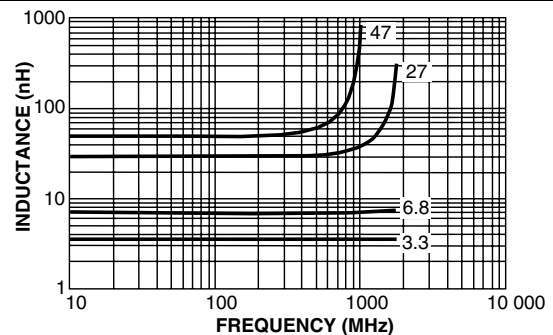
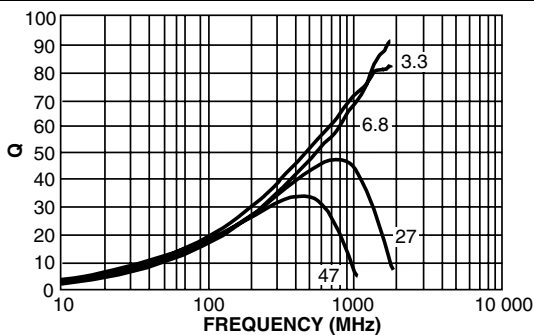
- L, Q, SRF measured on HP-4291A and HP-8753D
- (1) Q Typical at 500 MHz

### DIMENSIONS in inches [millimeters]



MODEL	A	B	C	D
IFC-0805	0.079 ± 0.006 [2.00 ± 0.15]	0.049 ± 0.006 [1.25 ± 0.15]	0.020 ± 0.006 [0.50 ± 0.15]	0.015 Max. [0.38 Max.]

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



### DESCRIPTION

IFC-0805	10 nH	± 5 %	ER	e3
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC LEAD (Pb)-FREE STANDARD

### GLOBAL PART NUMBER

I	F	C	0	8	0	5	E	R	1	0	N	J
PRODUCT FAMILY			SIZE			PACKAGE CODE		INDUCTANCE VALUE			TOL.	



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