

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)
- Lead (Pb)-free terminations and RoHS compliant



RoHS
COMPLIANT

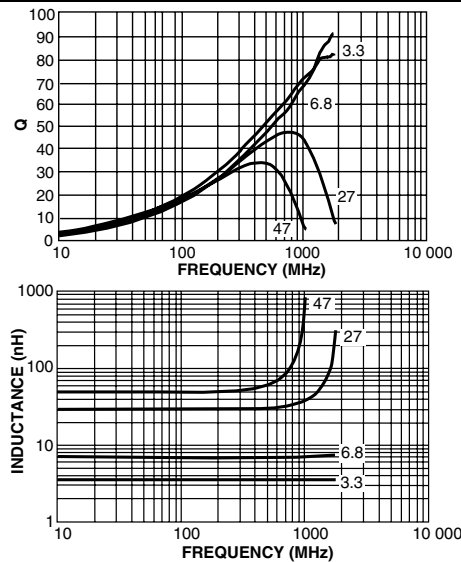
STANDARD ELECTRICAL SPECIFICATIONS

MODEL	L 100 MHz (nH)	L TOL.	Q 100 MHz (Typ.)	Q 800 MHz (Typ.)	Q 1700 MHz (Typ.)	SRF MHz (Typ.)	DCR Ohms (Max.)	RATED DC CURRENT (mA)
IFC-0805	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	10 %	12	46	67	11 000	0.13	1000
	3.9	10 %	15	55	80	9000	0.13	500
	4.7	10 %	15	53	78	7000	0.16	500
	5.6	10 %	13	53	80	6500	0.17	500
	6.8	10 %	14	53	65	4800	0.20	500
	8.2	10 %	15	50	77	3600	0.25	500
	10	10 %	13	48	67	3500	0.36	500
	12	10 %	14	48	68	3400	0.41	500
	15	10 %	15	48	59	3100	0.49	400
	18	10 %	14	48	48	2550	0.69	400
	22	10 %	16	39	—	1750	0.70	400
	27	10 %	16	41	—	1600	0.95	300
	33	10 %	16	39*	—	1300	1.1	300
	39	10 %	18	32*	—	1200	1.1	300
	47	10 %	17	30*	—	1060	1.2	300

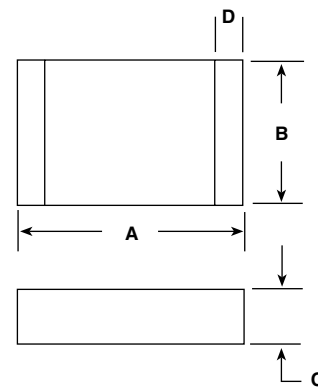
L, Q, SRF measured on HP-4291A and HP-8753D

* 500 MHz

PERFORMANCE GRAPHS: INDUCTANCE AND Q VS FREQUENCY



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.]

DESCRIPTION

IFC-0805
MODEL

10 nH
INDUCTANCE
VALUE

± 5 %
INDUCTANCE
TOLERANCE

ER
PACKAGE
CODE

e3
JEDEC LEAD (Pb)-FREE
STANDARD

GLOBAL PART NUMBER

I F C
PRODUCT FAMILY

0 8 0 5
SIZE

E R
PACKAGE
CODE

1 0 N
INDUCTANCE
VALUE

J
TOL.



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Mouser Electronics

Authorized Distributor

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Vishay:

<u>IFC0805NC3N3K</u>	<u>IFC0805NC3N9K</u>	<u>IFC0805NC27NJ</u>	<u>IFC0805NC15NJ</u>	<u>IFC0805NC2N7S</u>	<u>IFC0805NC2N2S</u>
<u>IFC0805ER1N8S</u>	<u>IFC0805ER1N5S</u>	<u>IFC0805ER18NJ</u>	<u>IFC0805ER6N8J</u>	<u>IFC0805ER10NJ</u>	<u>IFC0805ER4N7K</u>
<u>IFC0805NC6N8J</u>	<u>IFC0805ER15NJ</u>	<u>IFC0805ER8N2J</u>	<u>IFC0805NC22NJ</u>	<u>IFC0805NC1N5S</u>	<u>IFC0805NC1N8S</u>
<u>IFC0805ER2N2S</u>	<u>IFC0805ER2N7S</u>	<u>IFC0805ER22NJ</u>	<u>IFC0805NC10NJ</u>	<u>IFC0805NC47NJ</u>	<u>IFC0805NC39NJ</u>
<u>IFC0805NC12NJ</u>	<u>IFC0805NC18NJ</u>	<u>IFC0805NC8N2J</u>	<u>IFC0805NC5N6K</u>	<u>IFC0805NC4N7K</u>	<u>IFC0805NC33NJ</u>
<u>IFC0805ER33NJ</u>	<u>IFC0805ER39NJ</u>	<u>IFC0805ER27NJ</u>	<u>IFC0805ER3N3K</u>	<u>IFC0805ER3N9K</u>	<u>IFC0805ER47NJ</u>
<u>IFC0805ER5N6K</u>	<u>IFC0805ER15NK</u>				