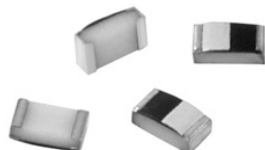


High Q/SRF, Low Value Chip Inductors



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



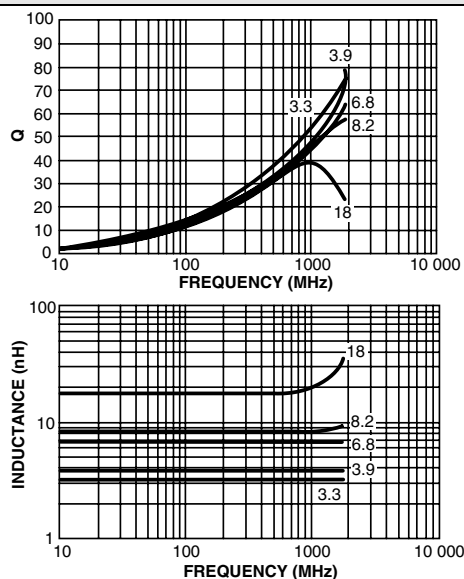
RoHS
COMPLIANT

STANDARD ELECTRICAL SPECIFICATIONS

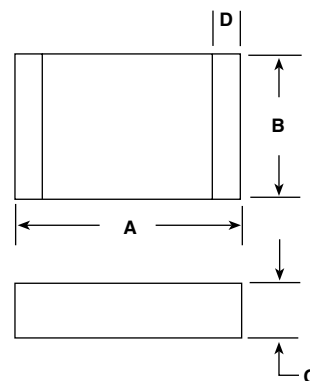
MODEL	L 100 MHz (nH)	L TOL.	Q 100 MHz (Typ.)	Q 800 MHz (Typ.)	Q 1700 MHz (Typ.)	SRF MHz (Typ.)	DCR Ohms (Max.)	RATED DC CURRENT (mA)
IFC-0603	1.5	0.3 nH	11	38	42	> 15 000	0.06	1000
	1.8	0.3 nH	10	35	50	> 15 000	0.06	1000
	2.2	0.3 nH	10	40	47	14 000	0.08	1000
	2.7	0.3 nH	10	38	51	13 000	0.12	1000
	3.3	5 %, 10 %	10	41	53	10 000	0.15	1000
	3.9	5 %, 10 %	10	36	51	8000	0.20	500
	4.7	5 %, 10 %	10	38	55	7000	0.21	500
	5.6	5 %, 10 %	10	38	48	5100	0.29	500
	6.8	5 %, 10 %	10	38	47	4900	0.32	500
	8.2	5 %, 10 %	10	38	58	3700	0.35	500
	10	5 %, 10 %	10	34	40	3600	0.42	500
	12	5 %, 10 %	11	36	45	3200	0.50	500
	15	5 %, 10 %	12	32	24	2600	0.60	400
	18	5 %, 10 %	11	30	23	2500	0.75	400

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

PERFORMANCE GRAPHS: INDUCTANCE AND Q VS FREQUENCY



DIMENSIONS in inches [millimeters]



MODEL	A	B	C	D
IFC-0603	0.063 ± 0.004 [1.60 ± 0.1]	0.031 ± 0.004 [0.80 ± 0.1]	0.020 ± 0.004 [0.50 ± 0.1]	0.015 Max. [0.38 Max.]

DESCRIPTION

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

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



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Mouser Electronics

Authorized Distributor

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Vishay:

<u>IFC0603NC5N6K</u>	<u>IFC0603ER12NJ</u>	<u>IFC0603ER1N8S</u>	<u>IFC0603ER1N5S</u>	<u>IFC0603ER10NJ</u>	<u>IFC0603ER18NJ</u>
<u>IFC0603ER6N8J</u>	<u>IFC0603NC8N2J</u>	<u>IFC0603NC12NJ</u>	<u>IFC0603ER8N2J</u>	<u>IFC0603NC3N9K</u>	<u>IFC0603NC3N3K</u>
<u>IFC0603NC4N7K</u>	<u>IFC0603ER2N2S</u>	<u>IFC0603ER2N7S</u>	<u>IFC0603NC6N8J</u>	<u>IFC0603NC18NJ</u>	<u>IFC0603NC2N2S</u>
<u>IFC0603NC2N7S</u>	<u>IFC0603ER15NJ</u>	<u>IFC0603NC10NJ</u>	<u>IFC0603NC1N5S</u>	<u>IFC0603NC1N8S</u>	<u>IFC0805ER12NJ</u>
<u>IFC0603ER4N7K</u>	<u>IFC0603ER3N9K</u>	<u>IFC0603ER3N3K</u>	<u>IFC0603ER5N6K</u>	<u>IFC0603ER3N9J</u>	<u>IFC0603ER4N7J</u>