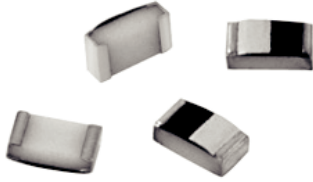


High Q/SRF, Low Value Chip Inductors



FEATURES

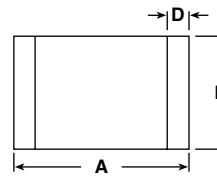
- High reliability
- Surface mountable
- High self-resonant frequency
- 2 % tolerance available
- Temperature range: - 40 °C to + 125 °C (no load)
- 40 °C to + 85 °C (full rated current)
- Compliant to RoHS directive 2002/95/EC


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 | 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 |

DIMENSIONS in inches [millimeters]

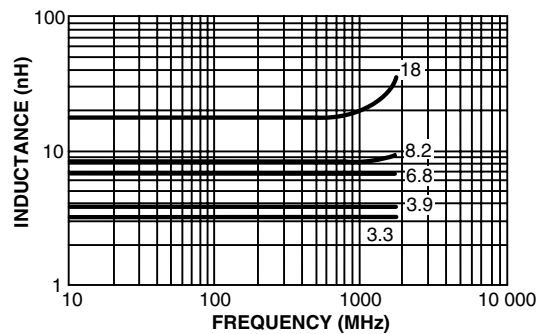
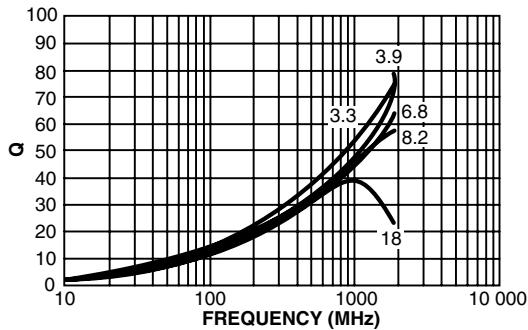


| MODEL | A | B | C | D |
|----------|-------------------------------|-------------------------------|-------------------------------|---------------------------|
| IFC-0603 | 0.063 ± 0.004 [1.60 ± 0.1] | 0.031 ± 0.004 [0.80 ± 0.1] | 0.020 ± 0.004 [0.50 ± 0.1] | 0.015 Max. [0.38 Max.] |

Note

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

PERFORMANCE GRAPHS: INDUCTANCE AND Q VS. FREQUENCY



DESCRIPTION

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

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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