



Frontier Electronics Corp.

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Molded Wire Wound Ferrite Chip Inductor

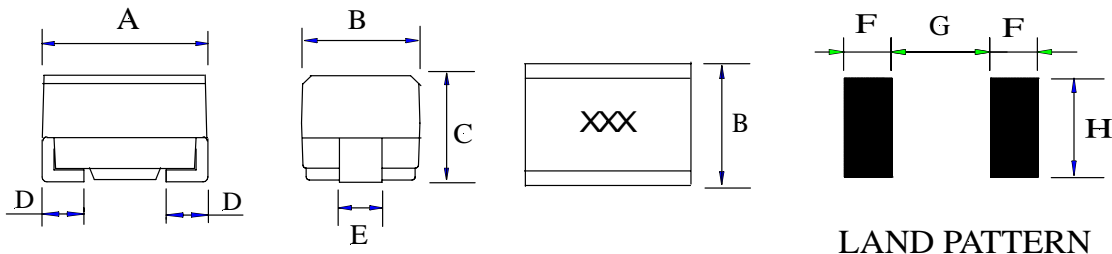
A. Inductance range:

1. CF252018-Series:
Inductance: 0.010 uH (530 mA)~100 uH (60 mA).
DCR: From 0.26 OHM to 21.0 OHM
SRF: From 2150 MHz to 9 MHz.
2. CF322522-Series:
Inductance: 0.12 uH (450mA)~220 uH (50mA).
DCR: From 0.22 OHM to 21.0 OHM
SRF: From 500 MHz to 7 MHz.
3. CF453232-Series:
Inductance: 0.1 uH (800mA)~1000 uH (30mA).
DCR: From 0.18 OHM to 40.0 OHM
SRF: From 300 MHz to 2.5 MHz.

B. Dimensions: (Unit: mm)

SERIES	A	B	C	D	E	F	G	H
CF252018	2.5 ± 0.2	2.0 ± 0.2	1.8 ± 0.2	0.45 Typ.	1.40 ± 0.10	0.9 Typ.	1.5 Typ.	1.5 Typ.
CF322522	3.2 ± 0.3	2.5 ± 0.2	2.2 ± 0.2	0.6 Typ.	1.00 ± 0.10	1.0Typ.	2.0 Typ.	2.0 Typ.
CF453232	4.5 ± 0.3	3.2 ± 0.2	3.2 ± 0.2	1.0 Typ.	1.20 ± 0.15	1.5 Typ.	3.0 Typ.	2.5 Typ.

C. Mechanical Drawing:



D. GENERAL SPECIFICATIONS:

1. Tolerance: M: ± 20%, L: ± 15%, K: ± 10%, J: ± 5%.
2. Operating Temp. : -25°C TO +100°C.
3. Storage Temp. : -40°C TO +100°C.
4. Temperature Rise 20°C Max. Ambient temperature 80°C Max.
5. Rated Current: Current cause inductance drops within 10% from 0°C to 50°C.
6. Resistance to solder heat: 260°C for 10 seconds.
7. Inductance & Q measured using the 4291B.
8. SRF measured using the HP8753E. DCR measured using the 502BC.
9. **RoHS** compliant