



# Frontier Electronics Corp.

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## Molded Wire Wound Ferrite Chip Inductors—CF322522 series

### A. Electrical specifications:

| Part No.      | L (uH) | Q (min.) | Test Freq. (MHz) | SRF (min.) (MHz) | DCR $\Omega$ (Max) | I rms. (mA) |
|---------------|--------|----------|------------------|------------------|--------------------|-------------|
| CF322522-R12M | 0.12   | 30       | 25.2             | 500              | 0.22               | 450         |
| CF322522-R15M | 0.15   | 30       | 25.2             | 450              | 0.25               | 450         |
| CF322522-R18M | 0.18   | 30       | 25.2             | 400              | 0.28               | 450         |
| CF322522-R22M | 0.22   | 30       | 25.2             | 350              | 0.32               | 450         |
| CF322522-R27M | 0.27   | 30       | 25.2             | 320              | 0.36               | 450         |
| CF322522-R33M | 0.33   | 30       | 25.2             | 300              | 0.40               | 450         |
| CF322522-R39M | 0.39   | 30       | 25.2             | 250              | 0.45               | 450         |
| CF322522-R47M | 0.47   | 30       | 25.2             | 220              | 0.50               | 450         |
| CF322522-R56M | 0.56   | 30       | 25.2             | 180              | 0.55               | 450         |
| CF322522-R68M | 0.68   | 30       | 25.2             | 160              | 0.60               | 450         |
| CF322522-R82M | 0.82   | 30       | 25.2             | 140              | 0.65               | 450         |
| CF322522-1R0M | 1.00   | 30       | 7.96             | 120              | 0.70               | 400         |
| CF322522-1R2M | 1.20   | 30       | 7.96             | 100              | 0.75               | 390         |
| CF322522-1R5M | 1.50   | 30       | 7.96             | 85               | 0.85               | 370         |
| CF322522-1R8M | 1.80   | 30       | 7.96             | 80               | 0.90               | 350         |
| CF322522-2R2M | 2.20   | 30       | 7.96             | 75               | 1.00               | 320         |
| CF322522-2R7M | 2.70   | 30       | 7.96             | 70               | 1.10               | 290         |
| CF322522-3R3K | 3.30   | 30       | 7.96             | 60               | 1.20               | 260         |
| CF322522-3R9K | 3.90   | 30       | 7.96             | 55               | 1.30               | 250         |
| CF322522-4R7K | 4.70   | 30       | 7.96             | 50               | 1.50               | 220         |
| CF322522-5R6K | 5.60   | 30       | 7.96             | 47               | 1.60               | 200         |
| CF322522-6R8K | 6.80   | 30       | 7.96             | 43               | 1.80               | 180         |
| CF322522-8R2K | 8.20   | 30       | 7.96             | 40               | 2.00               | 170         |
| CF322522-100K | 10.0   | 30       | 2.52             | 36               | 2.10               | 150         |
| CF322522-120K | 12.0   | 30       | 2.52             | 33               | 2.50               | 140         |
| CF322522-150K | 15.0   | 30       | 2.52             | 28               | 2.80               | 130         |
| CF322522-180K | 18.0   | 30       | 2.52             | 25               | 3.30               | 120         |
| CF322522-220K | 22.0   | 30       | 2.52             | 23               | 3.70               | 110         |
| CF322522-270K | 27.0   | 30       | 2.52             | 18               | 5.00               | 80          |
| CF322522-330K | 33.0   | 30       | 2.52             | 17               | 5.60               | 70          |
| CF322522-390K | 39.0   | 30       | 2.52             | 16               | 6.40               | 65          |
| CF322522-470K | 47.0   | 30       | 2.52             | 15               | 7.00               | 60          |
| CF322522-560K | 56.0   | 30       | 2.52             | 13               | 8.00               | 55          |
| CF322522-680K | 68.0   | 30       | 2.52             | 12               | 9.00               | 50          |
| CF322522-820K | 82.0   | 30       | 2.52             | 11               | 10.00              | 45          |
| CF322522-101K | 100    | 20       | 0.796            | 10               | 11.00              | 40          |
| CF322522-121K | 120    | 20       | 0.796            | 10               | 12.00              | 70          |
| CF322522-151K | 150    | 20       | 0.796            | 8                | 15.00              | 65          |
| CF322522-181K | 180    | 20       | 0.796            | 7                | 17.00              | 60          |
| CF322522-221K | 220    | 20       | 0.796            | 7                | 21.00              | 50          |



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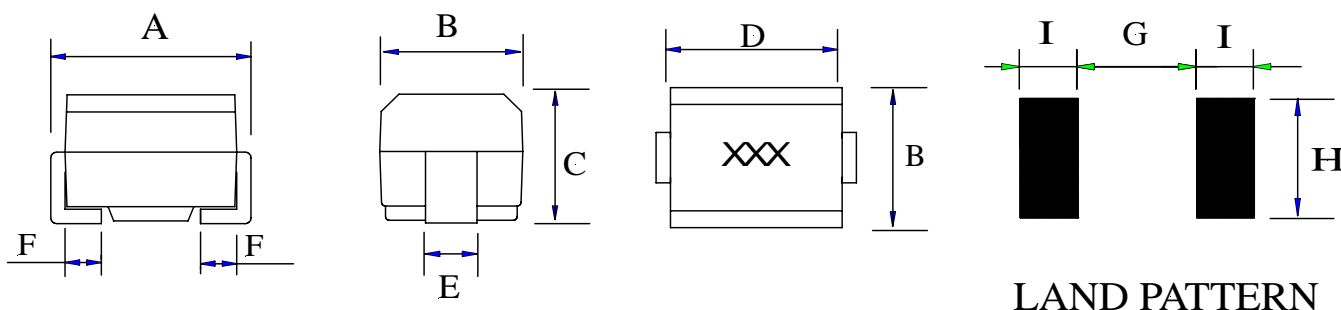
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## Molded Wire Wound Ferrite Chip Inductors—CF322522 series

### B. Dimensions: (Unit:mm)

| SERIES   | A       | B       | C       | D       | E       | F        | G        | H        | I       |
|----------|---------|---------|---------|---------|---------|----------|----------|----------|---------|
| CF322522 | 3.2±0.3 | 2.5±0.2 | 2.2±0.2 | 2.9±0.2 | 1.0±0.1 | 0.6 Typ. | 2.0 Typ. | 2.0 Typ. | 1.0Typ. |

### C. Mechanical Drawing:



### D. General information:

1. Tolerance: M: ± 20%, L: ± 15%, K: ± 10%.
2. Operating Temperature: -25°C TO +100°C.
3. Storage Temperature: -40°C TO +100°C.
4. Temperature Rise: 20°C Max.
5. Ambient temperature 80°C Max.
6. Rated Current: Current cause inductance drops within 10% from 0°C to 50°C.
7. Resistance to solder heat: 260°C for 10 seconds.
8. Inductance & Q measured using the HP4291B.
9. SRF measured using the HP8720D or HP8753E.
10. DCR measured using the 502BC.
11. Inductance range: From 0.12 uH to 220 uH.
12. SRF: From 7.0MHz to 500MHz.
13. RoHS compliant.

### E. Marking:

1. For catalogue parts: The last 3 digits of the part number.
2. For customer parts or special tolerance: The last 3 digits of the part number plus the special tolerance.



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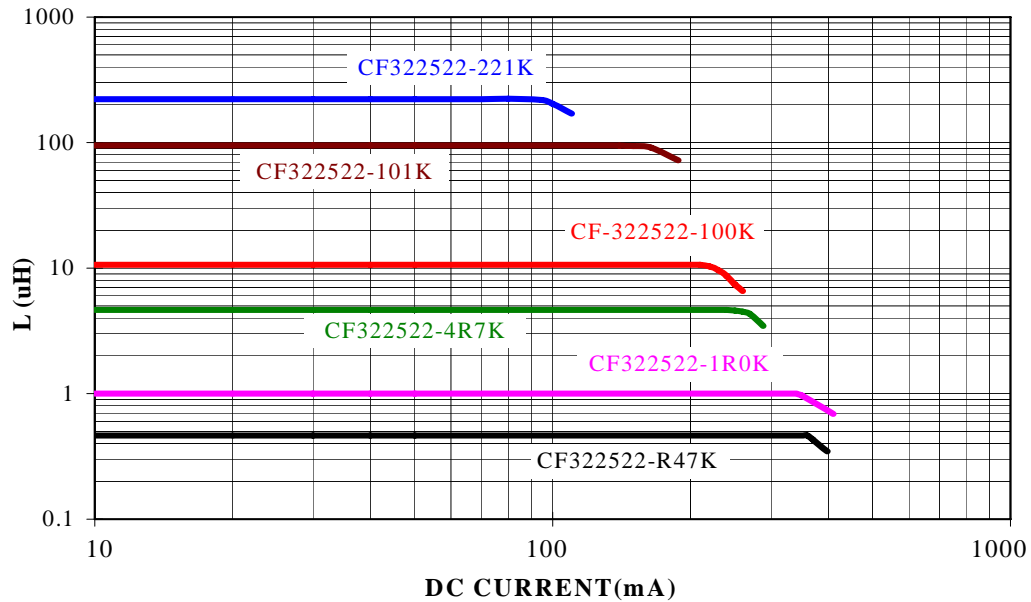
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### F. Characteristic curve:

#### 1. L vs. DC Current:



#### 2. Typical Q vs. Frequency:

