



Frontier Electronics Corp.

667 E. COCHRAN STREET, SIMI VALLEY, CA 93065

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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 Ω (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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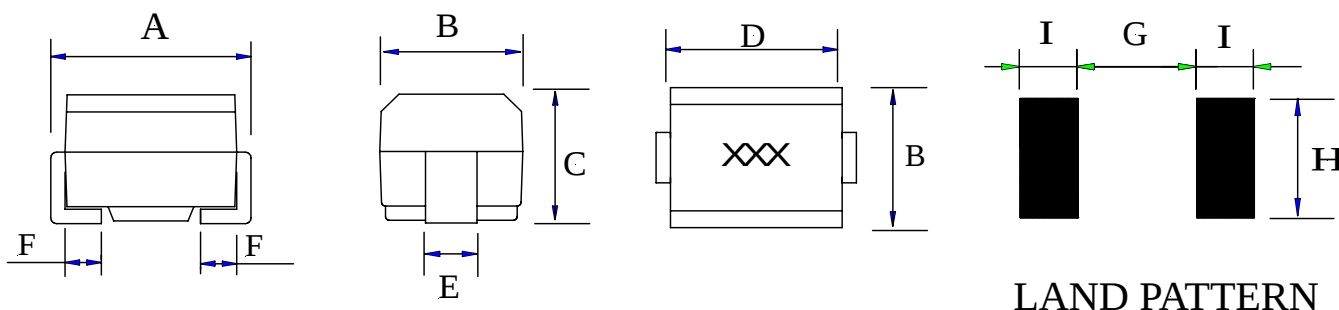
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B. Dimensions: (Unit:mm)

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: $\pm 20\%$, L: $\pm 15\%$, K: $\pm 10\%$.
2. Operating Temperature: -25°C TO $+100^{\circ}\text{C}$.
3. Storage Temperature: -40°C TO $+100^{\circ}\text{C}$.
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 μH to 220 μH .
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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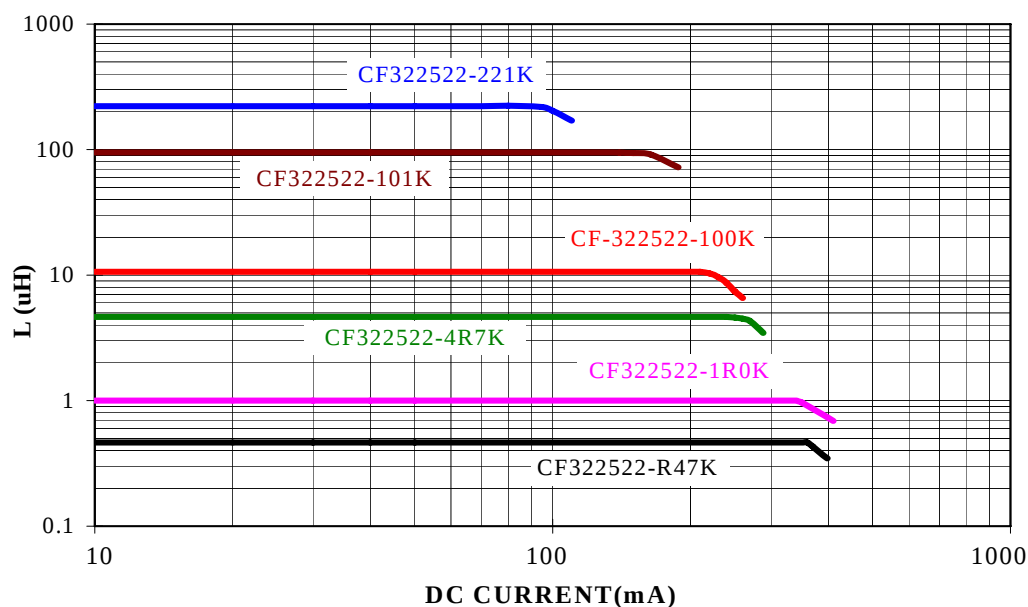
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F. Characteristic curve:

1. L vs. DC Current:



2. Typical Q vs. Frequency:

