



# Frontier Electronics Corp.

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## Molded Wire Wound Ferrite Chip Inductors--CF453232 Series

### A. Electrical specifications:

Part No.	L (uH)	Q (min.)	Test Freq. (MHz)	SRF (min.) (MHz)	DCR $\Omega$ (Max)	I rms. (mA)
CF453232-R10M	0.10	35	25.2	300	0.18	800
CF453232-R12M	0.12	35	25.2	280	0.20	770
CF453232-R15M	0.15	35	25.2	250	0.22	730
CF453232-R18M	0.18	35	25.2	220	0.24	700
CF453232-R22M	0.22	40	25.2	200	0.25	665
CF453232-R27M	0.27	40	25.2	180	0.26	635
CF453232-R33M	0.33	40	25.2	165	0.28	605
CF453232-R39M	0.39	40	25.2	150	0.30	575
CF453232-R47M	0.47	40	25.2	145	0.32	545
CF453232-R56M	0.56	40	25.2	140	0.36	520
CF453232-R68M	0.68	40	25.2	135	0.40	500
CF453232-R82M	0.82	40	25.2	130	0.45	475
CF453232-1R0K	1.00	50	7.96	100	0.50	450
CF453232-1R2K	1.20	50	7.96	80	0.55	430
CF453232-1R5K	1.50	50	7.96	70	0.60	410
CF453232-1R8K	1.80	50	7.96	60	0.65	390
CF453232-2R2K	2.20	50	7.96	55	0.70	380
CF453232-2R7K	2.70	50	7.96	50	0.75	370
CF453232-3R3K	3.30	50	7.96	45	0.80	355
CF453232-3R9K	3.90	50	7.96	40	0.90	330
CF453232-4R7K	4.70	50	7.96	35	1.0	315
CF453232-5R6K	5.60	50	7.96	33	1.1	300
CF453232-6R8K	6.80	50	7.96	27	1.2	285
CF453232-8R2K	8.20	50	7.96	25	1.4	270
CF453232-100K	10.0	50	2.52	20	1.6	250
CF453232-120K	12.0	50	2.52	18	2.0	225
CF453232-150K	15.0	50	2.52	17	2.5	200
CF453232-180K	18.0	50	2.52	15	2.8	190
CF453232-220K	22.0	50	2.52	13	3.2	180
CF453232-270K	27.0	50	2.52	12	3.6	170
CF453232-330K	33.0	50	2.52	11	4.0	160
CF453232-390K	39.0	50	2.52	10	4.5	150
CF453232-470K	47.0	50	2.52	10	5.0	140
CF453232-560K	56.0	50	2.52	9.0	5.5	135
CF453232-680K	68.0	50	2.52	9.0	6.0	130
CF453232-820K	82.0	50	2.52	8.0	7.0	120
CF453232-101K	100	40	0.796	8.0	8.0	110
CF453232-121K	120	40	0.796	6.0	8.0	110
CF453232-151K	150	40	0.796	5.0	9.0	105
CF453232-181K	180	40	0.796	5.0	9.5	102
CF453232-221K	220	40	0.796	4.0	10	100
CF453232-271K	270	40	0.796	4.0	12	92
CF453232-331K	330	40	0.796	3.5	14	85
CF453232-391K	390	40	0.796	3.0	18	80
CF453232-471K	470	40	0.796	3.0	26	62
CF453232-561K	560	30	0.796	3.0	30	50
CF453232-681K	680	30	0.796	3.0	30	50
CF453232-821K	820	30	0.796	2.5	35	30
CF453232-102K	1000	20	0.252	2.5	40	30



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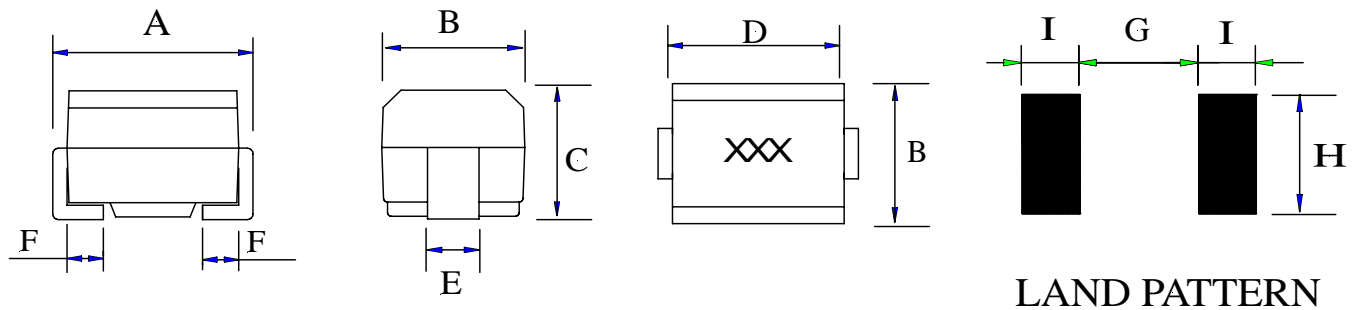
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## Molded Wire Wound Ferrite Chip Inductors--CF453232 Series

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

SERIES	A	B	C	D	E	F	G	H	I
CF453232	4.5±0.3	3.2±0.2	3.2±0.2	4.2±0.2	1.20±0.15	1.0 Typ.	3.0 Typ.	2.6 Typ.	1.5 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.
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 0.1uH(800mA)~1000uH(30mA).
12. SRF: From 2.5MHz to 300MHz.
13. RoHS compliant.
14. Above part number on the table is for "LEADED" parts; for RoHS parts, please add "-LFR" at the end of our Part number.

### E. Marking:

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



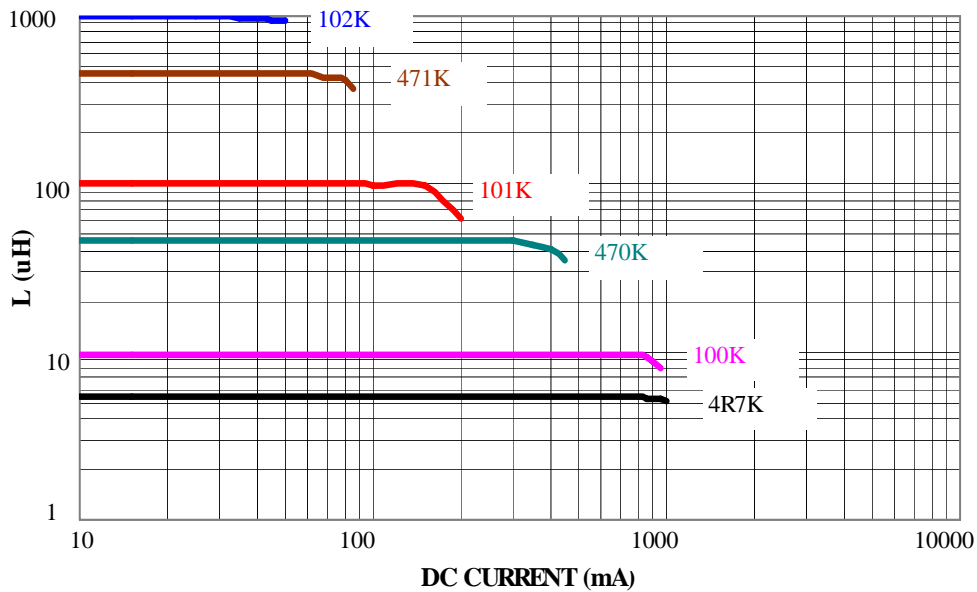
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### F. Characteristic curve:

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



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

