



# Frontier Electronics Corp.

667 E. COCHRAN STREET, SIMI VALLEY, CA 93065

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## SMD Wire Wound Ferrite Chip Inductors—0805F series

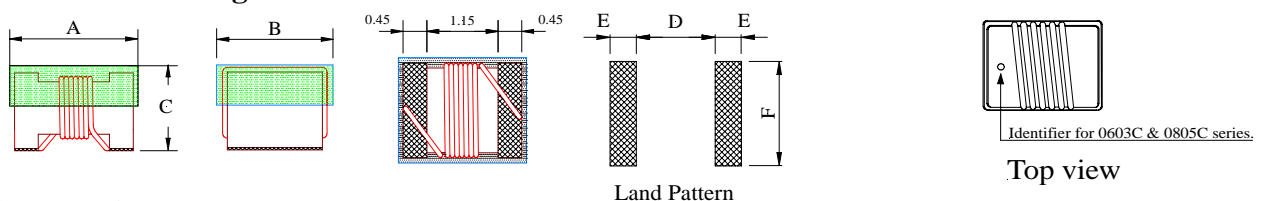
### A. Electrical specifications:

Part No.	L (uH)	Test Freq. (MHz)	Percent Tolerance	Q (Min)	SRF (min) (MHz)	DCR (Max) $\Omega$	I rms. (A)	Color Code
0805F-78N <sub>-</sub>	0.078	7.9	K, J	19	1440	0.042	2.0	Black
0805F-R11 <sub>-</sub>	0.110	7.9	K, J	19	1400	0.050	2.0	Brown
0805F-R47 <sub>-</sub>	0.47	7.9	K, J	19	500	0.310	0.720	Red
0805F-R68 <sub>-</sub>	0.68	7.9	K, J	20	400	0.460	0.590	Orange
0805F-1R0 <sub>-</sub>	1.0	7.9	K, J	20	340	0.690	0.500	Yellow
0805F-1R5 <sub>-</sub>	1.5	7.9	K, J	20	275	0.830	0.490	Green
0805F-1R8 <sub>-</sub>	1.8	7.9	K, J	20	246	1.15	0.410	Blue
0805F-2R2 <sub>-</sub>	2.2	7.9	K, J	20	106	1.28	0.365	Violet
0805F-2R7 <sub>-</sub>	2.7	7.9	K, J	20	105	1.48	0.350	Gray
0805F-3R3 <sub>-</sub>	3.3	7.9	K, J	20	83	1.57	0.330	White
0805F-3R9 <sub>-</sub>	3.9	7.9	K, J	20	52	1.70	0.300	Black
0805F-4R7 <sub>-</sub>	4.7	7.9	K, J	20	50	1.87	0.280	Brown
0805F-6R8 <sub>-</sub>	6.8	7.9	K, J	20	35	2.25	0.260	Red
0805F-8R2 <sub>-</sub>	8.2	2.5	K, J	18	27	2.55	0.250	Orange
0805F-100 <sub>-</sub>	10	2.5	K, J	18	21	3.45	0.200	Yellow
0805F-150 <sub>-</sub>	15	2.5	K, J	18	17	5.03	0.180	Green
0805F-220 <sub>-</sub>	22	2.5	K, J	18	13	6.18	0.150	Blue
0805F-270 <sub>-</sub>	27	2.5	K, J	15	11	11.04	0.120	Violet

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

SERIES	A (Max.)	B (Max.)	C (Max.)	D (Max.)	E	F
0805F	2.29	1.91	1.60	0.76	1.02	1.78

### C. Mechanical drawing:



### D. Color coding:

These parts are marked with single color dot. The dot represented inductance value shows on the table.

### E. Feature:

1. P/N: 0805F-XXX<sub>-</sub>: 0805F: Size, "XXX": Inductance, "<sub>-</sub>": Tolerance.
2. Tolerance: K:  $\pm 10\%$ , J:  $\pm 5\%$ .
3. High Q at high frequency.
4. High self-resonance frequency.
5. For 15°C Temperature Rise.
6. Inductance & Q measured using the HP4291B
7. SRF measured using the HP8720D or HP8753E.
8. DCR measured using the 502BC.
9. Operating temperature: -40°C TO +85°C.
10. Inductance and Current Range: From 0.078uH (2000mA) ~27uH (120mA).
11. SRF: From 1440 MHz to 11 MHz.
12. **RoHS** compliant.

### F. Applications:

\* Pagers. \* Mobile communication units. \* Portable telephone. \* Hybrid.

★ *Special specifications are available for customer's requirement.*



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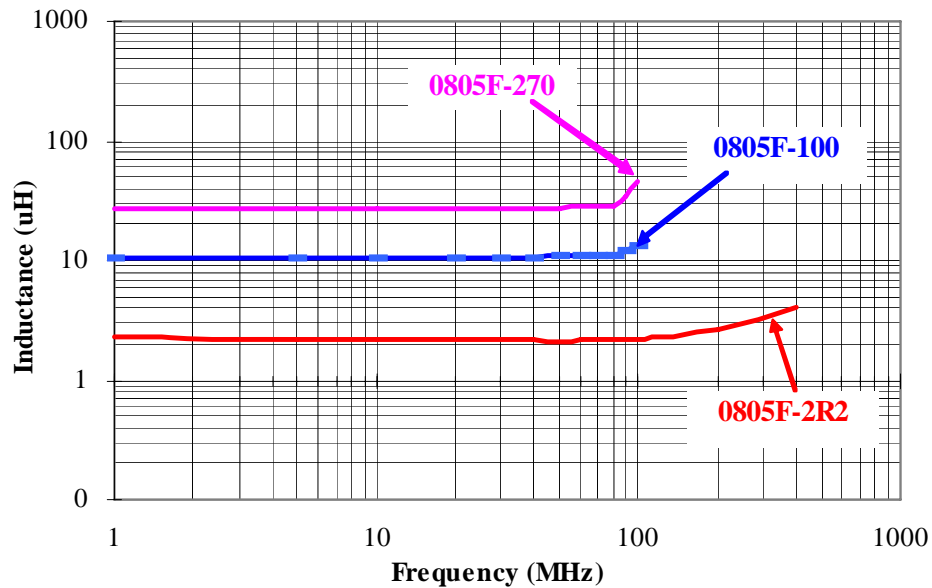
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## SMD Wire Wound Ferrite Chip Inductors—0805F series

### F. Characteristic curve:

#### 1. L vs. Frequency:

Inductance vs. Frequency



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

Typical Q vs. Frequency

