



# Frontier Electronics Corp.

667 E. COCHRAN STREET, SIMI VALLEY, CA 93065

TEL: (805) 522-9998 FAX: (805) 522-9989

E-mail: [frontiersales@frontierusa.com](mailto:frontiersales@frontierusa.com)

Web: <http://www.frontierusa.com>

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

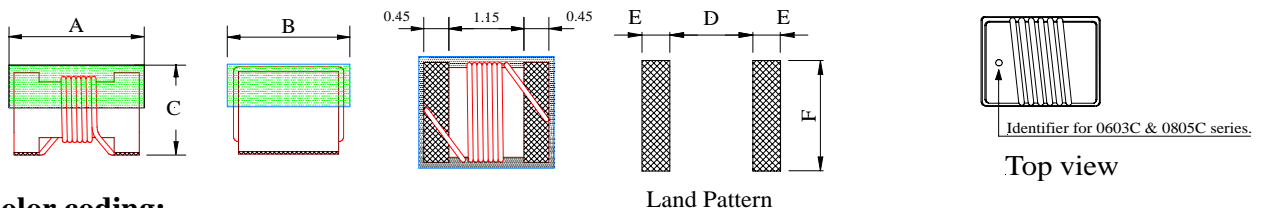
### A. Electrical specifications:

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

### 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:

- Tolerance: K:  $\pm 10\%$ , J:  $\pm 5\%$ .
- High Q at high frequency.
- High self-resonance frequency.
- For 15°C Temperature Rise.
- Inductance & Q measured using the HP4291B
- SRF measured using the HP8720D or HP8753E.
- DCR measured using the 502BC.
- Operating temperature: -40°C TO +85°C.
- Inductance Range:
  - 0805F (Ferrite) Series: 0.078 uH (2000 mA) ~27 uH (120mA). SRF from 1440 MHz to 11 MHz.
- RoHS** compliant.

### F. Applications:

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

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



# Frontier Electronics Corp.

667 E. COCHRAN STREET, SIMI VALLEY, CA 93065

TEL: (805) 522-9998 FAX: (805) 522-9989

E-mail: [frontiersales@frontierusa.com](mailto:frontiersales@frontierusa.com)

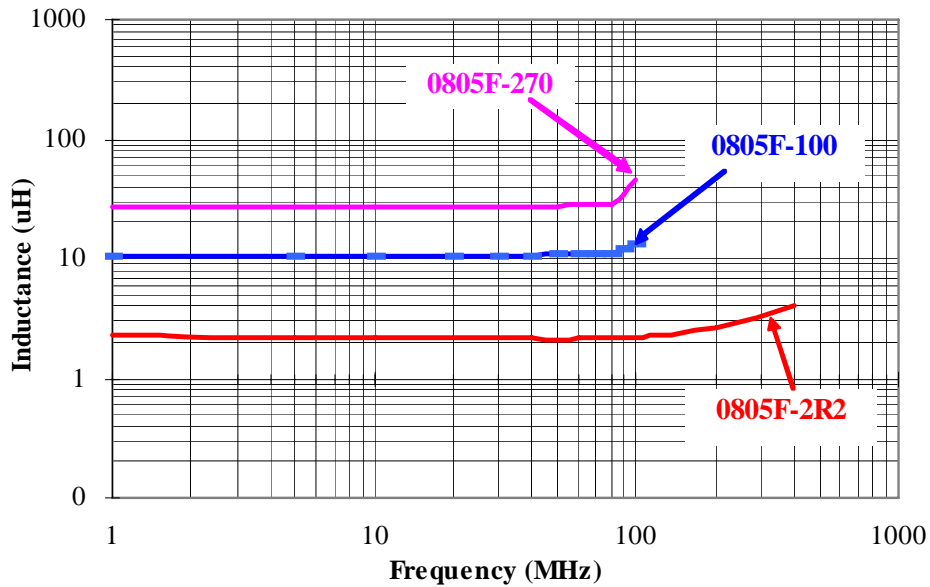
Web: <http://www.frontierusa.com>

## 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

