



# Frontier Electronics Corp.

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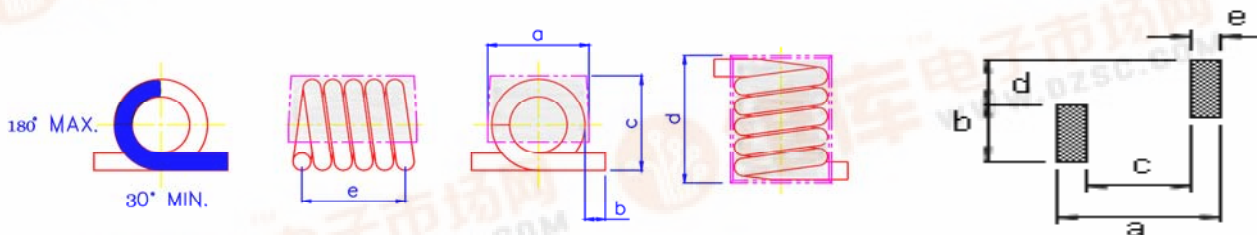
## SMD Air Wound Coils—293A series

### A. Electrical specifications:

Part No.	L (nH)	Tolerance	Q (Min.)	Q (Typ.)	Test Freq.	DCR max. (mΩ)	SRF min. (GHz)	I DC (A max.)
293A-22	22	J, G	100	135	150 MHz	4.2	3.2	3.0
293A-27	27	J, G	100	135	150 MHz	4.0	2.7	3.5
293A-33	33	J, G	100	130	150 MHz	4.8	2.5	3.0
293A-39	39	J, G	100	135	150 MHz	4.4	2.1	3.0
293A-47	47	J, G	100	135	150 MHz	5.6	2.1	3.0
293A-56	56	J, G	100	125	150 MHz	6.2	1.5	3.0
293A-68	68	J, G	100	120	150 MHz	8.2	1.5	2.5
293A-82	82	J, G	100	120	150 MHz	9.4	1.3	2.5
293A-100	100	J, G	100	115	150 MHz	12.3	1.2	1.7
293A-120	120	J, G	100	125	150 MHz	17.3	1.1	1.5

### B. Mechanical dimensions: (Unit: mm)

Series No.	a	b	c	d	e
293A	3.81(MAX)	1.53±0.39	4.2(MAX)	4.83(MAX)	4.32±0.39



Mechanical dimension

Land Pattern

### C. Land Pattern: (Unit: mm)

Series No.	a	b	c	d	e
293A	5.80	5.16	2.85	2.62	1.48

### D. Notes:

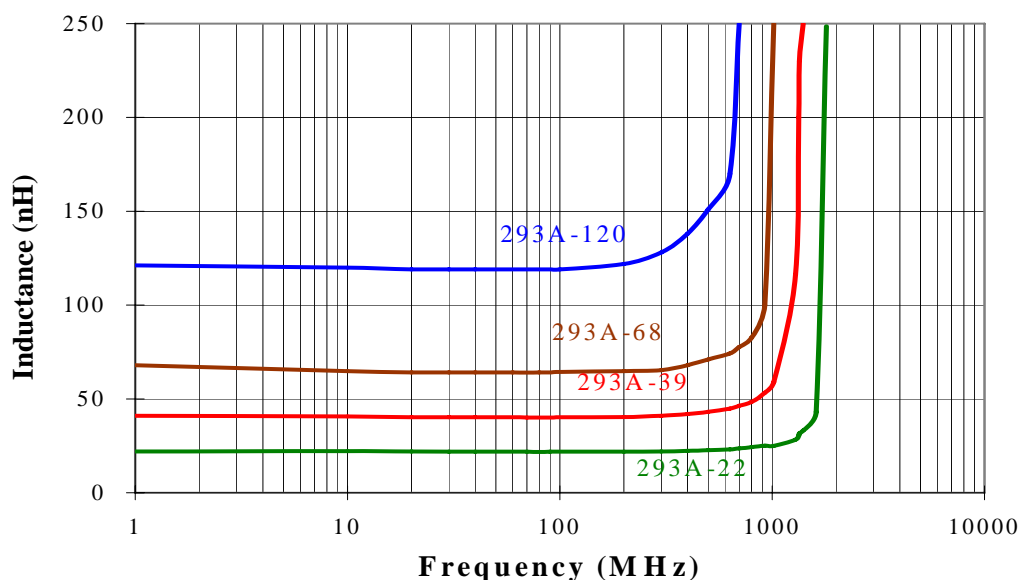
1. Tolerance: J = ± 5 % or G = ± 2 %.
2. Inductance & Q measured on the HP4291B with HP16193 test fixture.
3. SRF measured on the HP8753E.
4. Operating temp. : -40°C TO +125°C.
5. For Temperature Rise: 15°C.
6. Inductance Range: (@ 25°C.)  
293A: From 22 to 120nH.
7. Equivalent to Coilcraft's "Midi Spring" Air Core Inductor.
8. **RoHS** compliant.



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### E. Characteristic curve:

#### 1. L vs. Frequency:



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

