



Frontier Electronics Corp.

667 E. COCHRAN STREET, SIMI VALLEY, CA 93065

TEL: (805) 522-9998

FAX: (805) 522-9989

E-mail: frontiersales@frontierusa.com

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

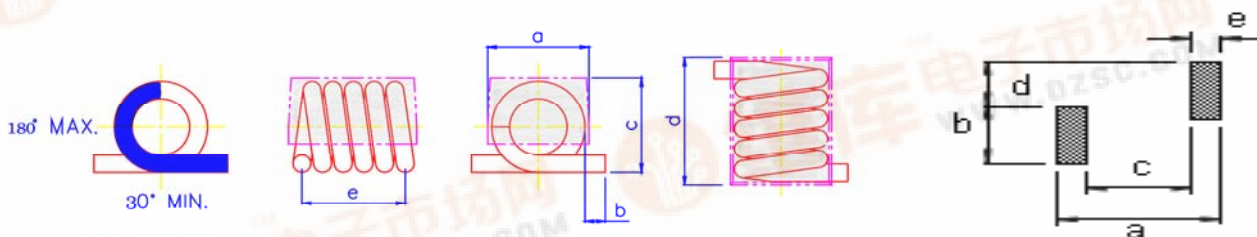
SMD Air Wound Coils—293A series

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:

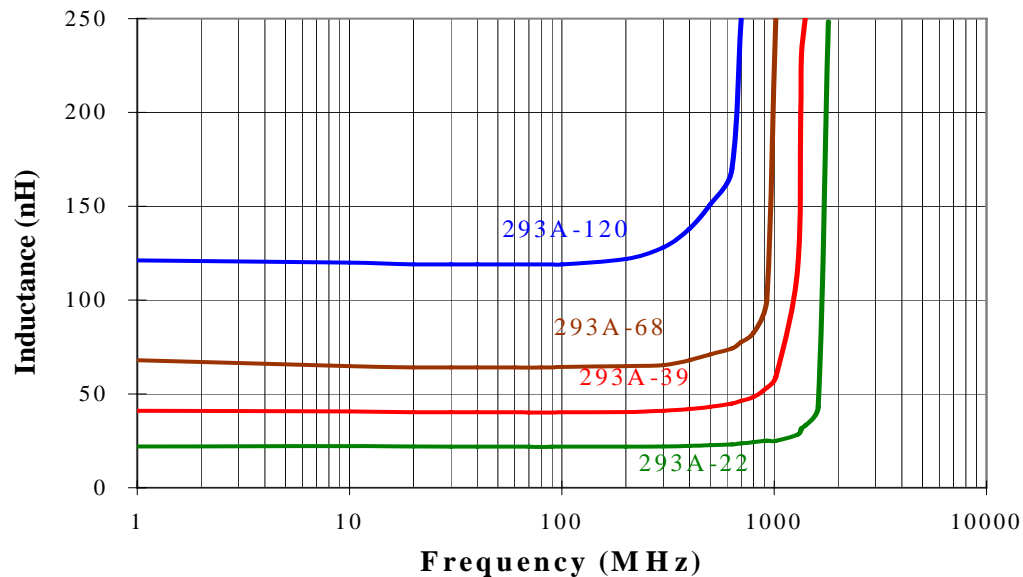
1. Tolerance: J = ± 5 % or G = ± 2 %.
2. Inductance & Q measured on the HP4291B with HP16193 test fixture.
3. SRF measured on the HP8753E.
4. Operating temp. : -40°C TO +125°C.
5. For Temperature Rise: 15°C.
6. Inductance Range: (@ 25°C.)
293A: From 22 to 120nH.
7. Equivalent to Coilcraft's "Midi Spring"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



SMD Air Wound Coils—293A series

E. Characteristic curve:

1. L vs. Frequency:



2. Typical Q vs. Frequency:

