



Frontier Electronics Corp.

667 E. COCHRAN STREET, SIMI VALLEY, CA 93065

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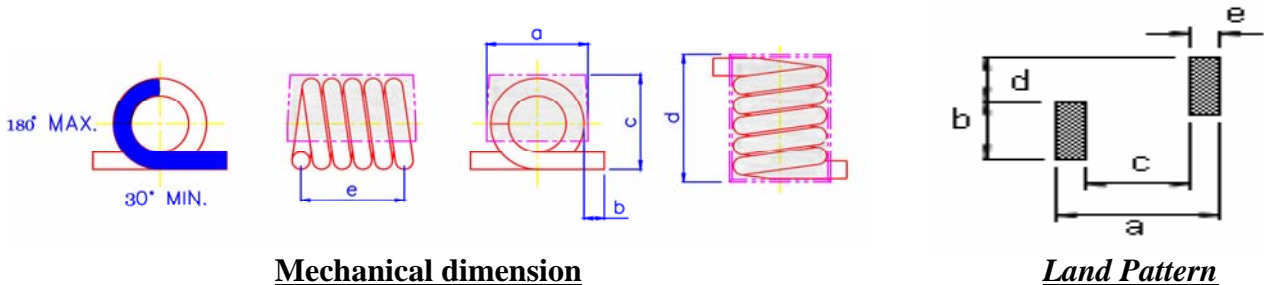
SMD Air Wound Coils—294A series

A. Electrical specifications:

| Part No. | Turns | L (nH) | Tolerance | Q (min) | Q (Typ) | Test Freq. | DCR (mΩ) | SRF min (MHz) | I DC (A max.) |
|----------|-------|--------|-----------|---------|---------|------------|----------|---------------|---------------|
| 294A-09 | 9 | 90 | J, G | 95 | 114 | 50 MHz | 15 | 1140 | 3.5 |
| 294A-10 | 10 | 111 | J, G | 87 | 104 | 50 MHz | 15 | 1020 | 3.5 |
| 294A-11 | 11 | 130 | J, G | 87 | 104 | 50 MHz | 20 | 900 | 3.0 |
| 294A-12 | 12 | 169 | J, G | 95 | 114 | 50 MHz | 25 | 875 | 3.0 |
| 294A-13 | 13 | 206 | J, G | 95 | 114 | 50 MHz | 30 | 800 | 3.0 |
| 294A-14 | 14 | 222 | J, G | 92 | 110 | 50 MHz | 35 | 730 | 3.0 |
| 294A-15 | 15 | 246 | J, G | 95 | 114 | 50 MHz | 35 | 685 | 3.0 |
| 294A-16 | 16 | 307 | J, G | 95 | 114 | 50 MHz | 35 | 660 | 3.0 |
| 294A-17 | 17 | 380 | J, G | 95 | 114 | 50 MHz | 50 | 590 | 2.5 |
| 294A-18 | 18 | 422 | J, G | 95 | 114 | 50 MHz | 60 | 540 | 2.5 |
| 294A-19 | 19 | 491 | J, G | 95 | 114 | 50 MHz | 65 | 535 | 2.0 |
| 294A-20 | 20 | 538 | J, G | 87 | 104 | 50 MHz | 90 | 490 | 2.0 |

B. Mechanical dimensions: (Unit: mm)

| Series No. | A | b | c | d | e |
|------------|-----------|-----------|----------|------------|-----------|
| 294A | 6.35(MAX) | 1.02±0.39 | 5.9(MAX) | 10.55(MAX) | 7.98±0.51 |



C. Land Pattern: (Unit: mm)

| Series No. | A | b | c | d | e |
|------------|------|------|------|------|------|
| 294A | 10.0 | 4.70 | 5.95 | 2.42 | 2.04 |

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.): From 90nH to 538nH.
7. Equivalent to Coilcraft's "Maxi Spring" Air Core Inductor.
8. Above part numbers on the table is for "LEADED" parts; for **RoHS** parts, please add "-LFR" at the end of our Part number.



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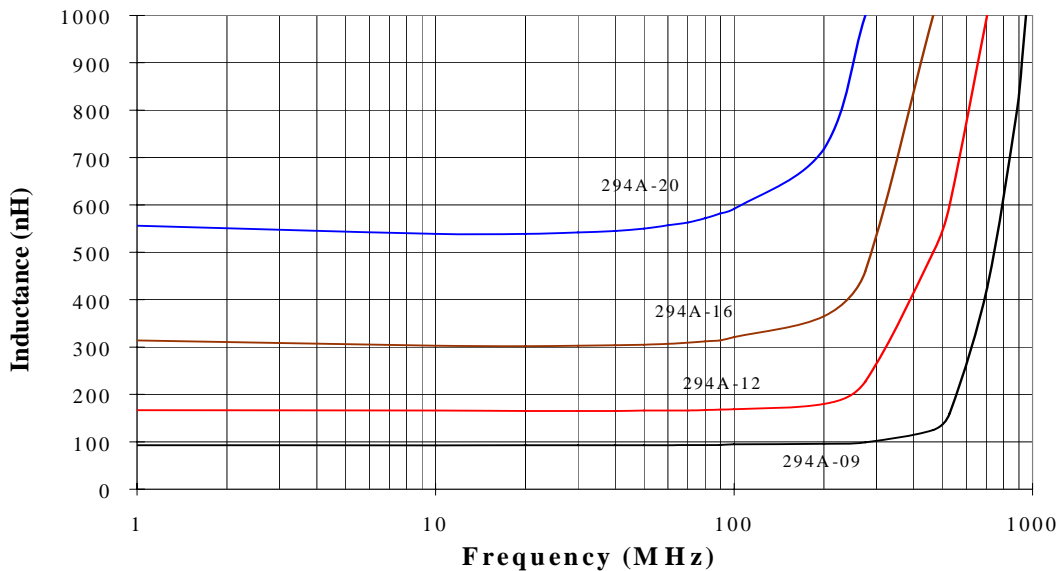
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E. Characteristic curve:

1. L vs. Frequency:



2. Typical Q vs. Frequency:

