



# Frontier Electronics Corp.

667 E. COCHRAN STREET, SIMI VALLEY, CA 93065

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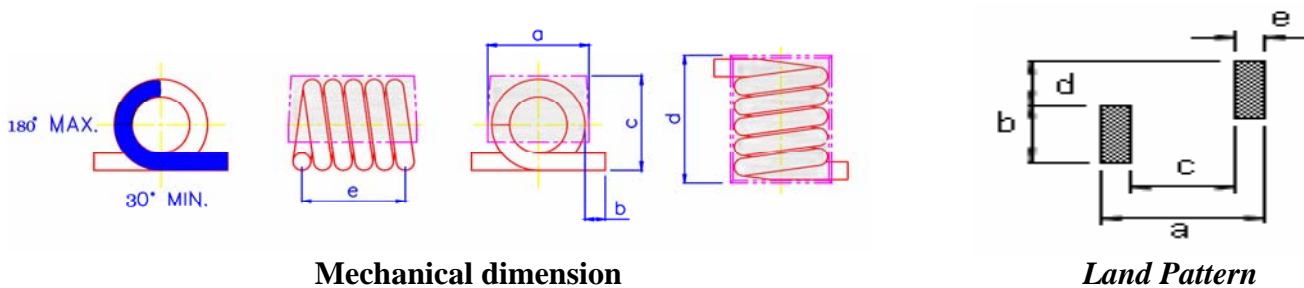
## SMD Air Wound Coils—292A & 292B series

### A. Electrical specifications:

Part No.	Turns	L (nH)	Tolerance	Q (Min.)	Test Freq.	DCR max. (mΩ)	SRF min. (GHz)	IDC (A max.)
292A-02	2	1.65	K	100	800 MHz	4.0	10.0	1.6
292A-03	3	2.55	K, J	100	800 MHz	5.0	8.2	1.6
292A-04	4	3.85	J, G	100	800 MHz	6.0	7.5	1.6
292A-05	5	5.45	J, G	100	800 MHz	8.0	7.0	1.6
292B-06	6	5.60	J, G	100	800 MHz	9.0	6.5	1.6
292B-07	7	7.15	J, G	100	800 MHz	10.0	6.0	1.6
292B-08	8	8.80	J, G	100	800 MHz	12.0	6.0	1.6
292B-09	9	9.85	J, G	100	800 MHz	13.0	5.2	1.6
292B-10	10	12.55	J, G	100	800 MHz	14.0	4.6	1.6

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

Series No.	a	b	c	d	e
292A	1.42 ± 0.13	0.89 ± 0.25	1.37 ± 0.15	2.2 ± 0.25	1.83 ± 0.25
292B	1.42 ± 0.13	0.89 ± 0.25	1.37 ± 0.15	4.04 ± 0.30	3.66 ± .30



Mechanical dimension

Land Pattern

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

Series No.	a	b	c	d	E
292A	2.62	2.46	1.04	1.02	0.79
292B	4.45	2.46	2.87	1.02	0.79

### D. Notes:

- Tolerance:
  - 292A-02: K = ± 10 % only.
  - 292A-03: J = ± 5 % or K = ± 10 %.
  - 292A-04 / 292A-05 and 292B-06 through 292B-10: J = ± 5 % or G = ± 2 %.
- Inductance & Q measured on the HP4291B with HP16193 test fixture.
- SRF measured on the HP8720D or HP8753E.
- Operating temp. : -40°C TO +125°C.
- For Temperature Rise: 15°C.
- Inductance Range (@ 25°C.): From 1.65nH to 12.55nH.
- Equivalent to Coilcraft's "Micro Spring" Air Core Inductor.
- 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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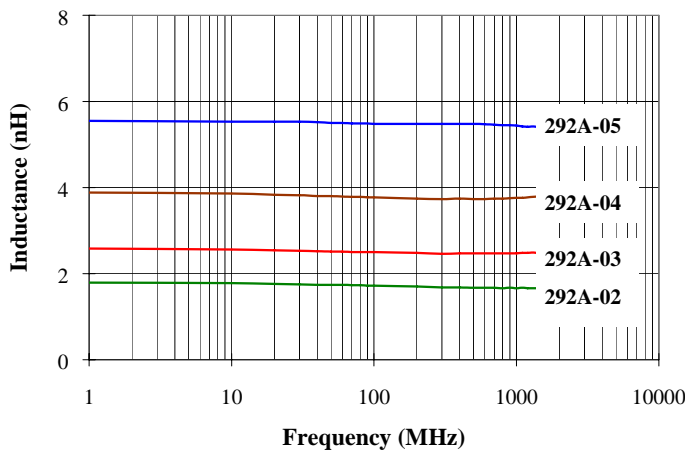
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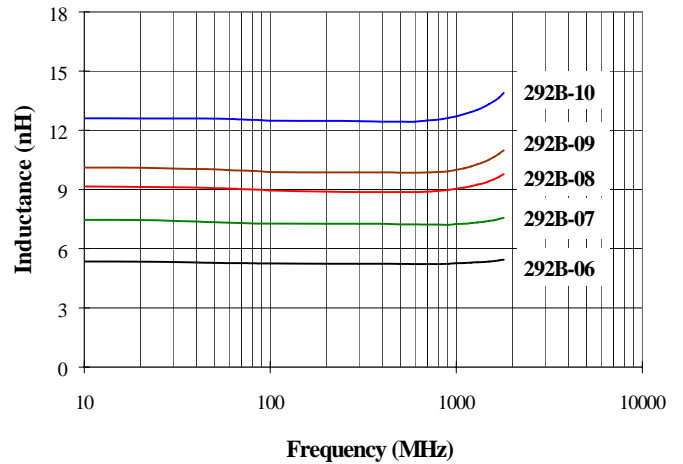
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### E. Characteristic curve:

#### 1. L vs. Frequency:

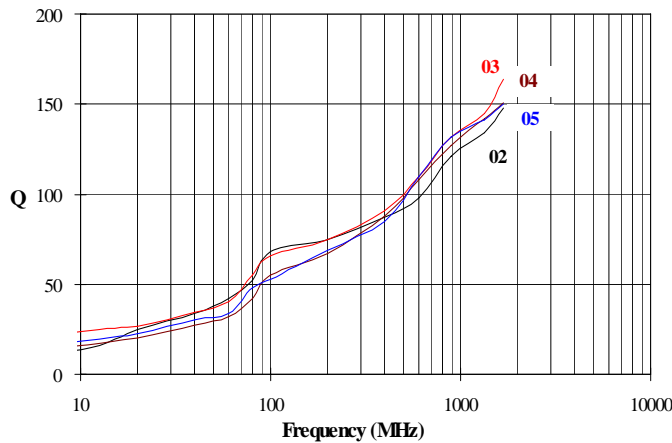


292A Series

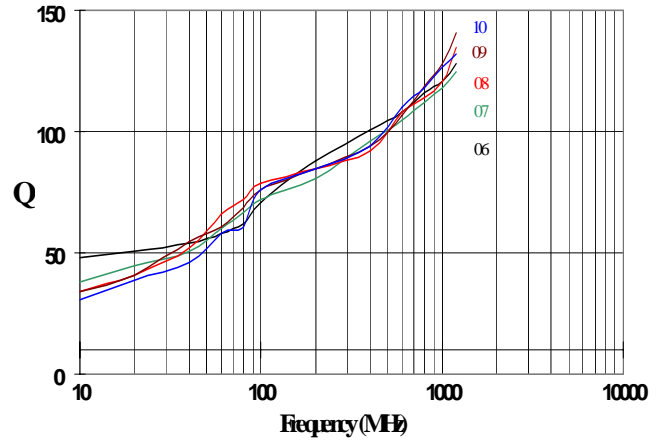


292B Series

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



292A Series



292B Series