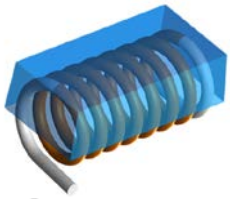
294A Series – SMD AIR WOUND COIL Rev. A

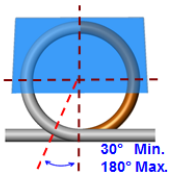
A. Electrical Specifications:

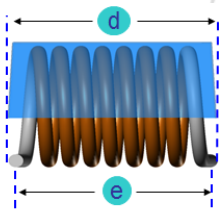
P/N	Turns	L (nH)	Tol.	Q Min.	Q Typ.	Test Freq. (MHz)	DCR Max. (mΩ)	SRF Min. (MHz)	I DC Max. (A)
294A-09_	9	90	J, G	95	114	50	15	1140	3.5
294A-10_	10	111	J, G	87	104	50	15	1020	3.5
294A-11_	11	130	J, G	87	104	50	20	900	3.0
294A-12_	12	169	J, G	95	114	50	25	875	3.0
294A-13_	13	206	J, G	95	114	50	30	800	3.0
294A-14_	14	222	J, G	92	110	50	35	730	3.0
294A-15_	15	246	J, G	95	114	50	35	685	3.0
294A-16_	16	307	J, G	95	114	50	35	660	3.0
294A-17_	17	380	J, G	95	114	50	50	590	2.5
294A-18_	18	422	J, G	95	114	50	60	540	2.5
294A-19_	19	491	J, G	95	114	50	65	535	2.0
294A-20_	20	538	J, G	87	104	50	90	490	2.0

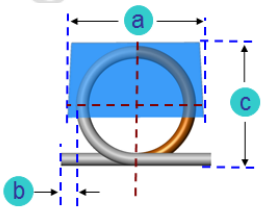
B. Dimensions: mm (Inch)

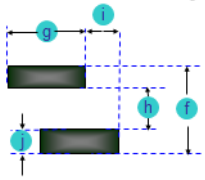
Series	a	b	c	d	e	f	g	h	i	j
294A	6.35 (0.250)	1.02 (0.040)	5.9 (0.232)	10.55 (0.415)	7.98 (0.314)	10 (0.394)	4.7 (0.185)	5.95 (0.234)	2.42 (0.095)	2.04 (0.080)
Tol.	Max.	±0.39 (0.015)	Max.	Max.	±0.51 (0.02)	Typ.	Typ.	Typ.	Typ.	Typ.











Foot Print

C. General Information:

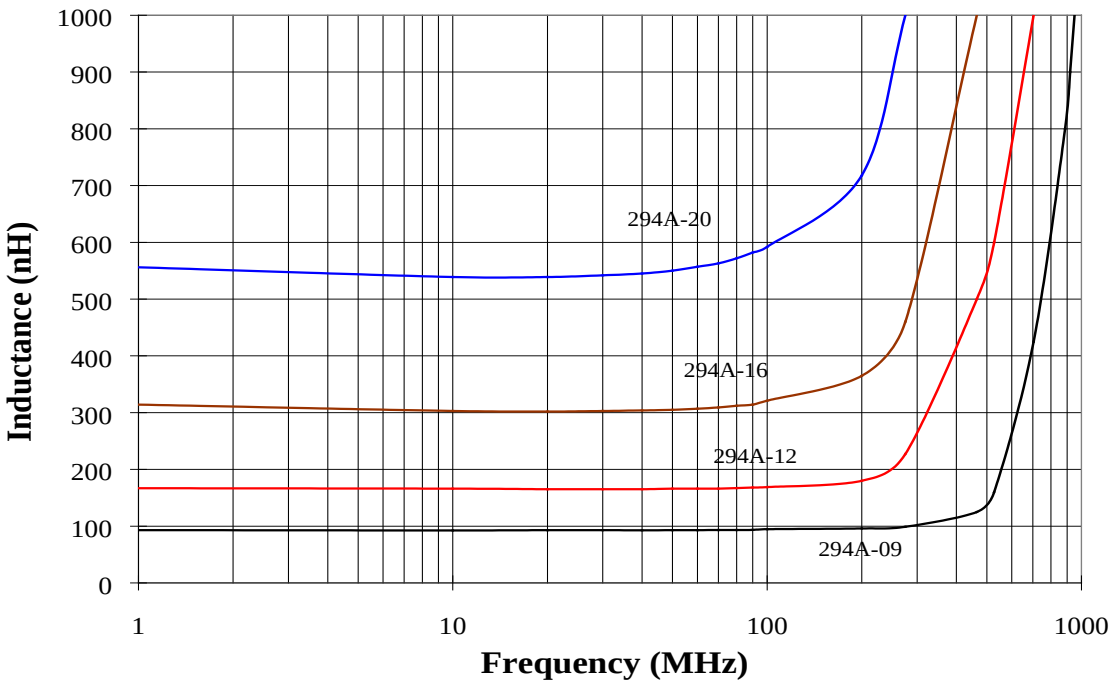
1. P/N: 294A-xx_, "294A" = Type, "xx" = Dash number, "_" = Inductance tolerance.
2. Tolerance "_": J: ± 5%, G: ± 2%
3. Small and lightweight surface mounting type
4. High Q at high frequency
5. High self-resonance frequency
6. Maximum Temperature Rise: 15°C (when measured at 25°C ambient).
7. Inductance & Q measured with HP4291B Impedance Analyzer with HP16193 test fixture
8. SRF measured using the HP8753E Network Analyzer or equivalent.
9. DCR measured using the Chroma 16502 or equivalent
10. Operating temperature: -40°C to +125ºC
11. Storage temp. : -40ºC to +85ºC.
12. Inductance and Current Range: From 90 nH (3500 mA) to 538 nH (2000 mA)
13. SRF: From 490 MHz to 1140 MHz
14. MSL: Level 1.

D. Applications:

1. Game Consoles
2. Set Top Boxes
3. Cables Modems
4. Computers
5. Mobile Communication Devices (Cell Phones, Radios, etc.)
6. RF Filters

E. Characteristics curve:

Inductance vs. Frequency



Q vs. Frequency

