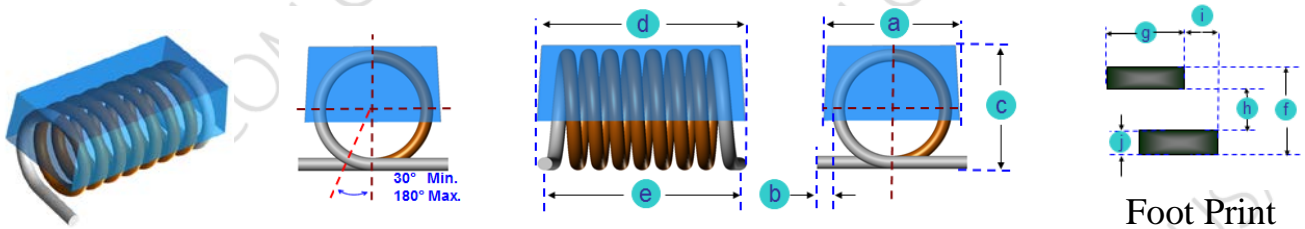


## A. Electrical Specifications:

P/N	L (nH)	Tol.	Q Min.	Q Typ.	Test Freq. (MHz)	DCR max. (mΩ)	SRF min. (GHz)	I DC max. (A)
293A-22_	22	J, G	100	135	150	4.2	3.2	3.0
293A-27_	27	J, G	100	135	150	4.0	2.7	3.5
293A-33_	33	J, G	100	130	150	4.8	2.5	3.0
293A-39_	39	J, G	100	135	150	4.4	2.1	3.0
293A-47_	47	J, G	100	135	150	5.6	2.1	3.0
293A-56_	56	J, G	100	125	150	6.2	1.5	3.0
293A-68_	68	J, G	100	120	150	8.2	1.5	2.5
293A-82_	82	J, G	100	120	150	9.4	1.3	2.5
293A-100_	100	J, G	100	115	150	12.3	1.2	1.7
293A-120_	120	J, G	100	125	150	17.3	1.1	1.5

## B. Dimensions: mm (Inch)

Series	a	b	c	d	e	f	g	h	i	j
293A	3.81 (0.150)	1.53 (0.060)	4.2 (0.165)	4.83 (0.190)	4.32 (0.170)	5.8 (0.228)	5.16 (0.203)	2.85 (0.112)	2.62 (0.103)	1.48 (0.058)
Tol.	Max.	±0.39 (0.015)	Max.	Max.	±0.39 (0.015)	Typ.	Typ.	Typ.	Typ.	Typ.



## C. General Information:

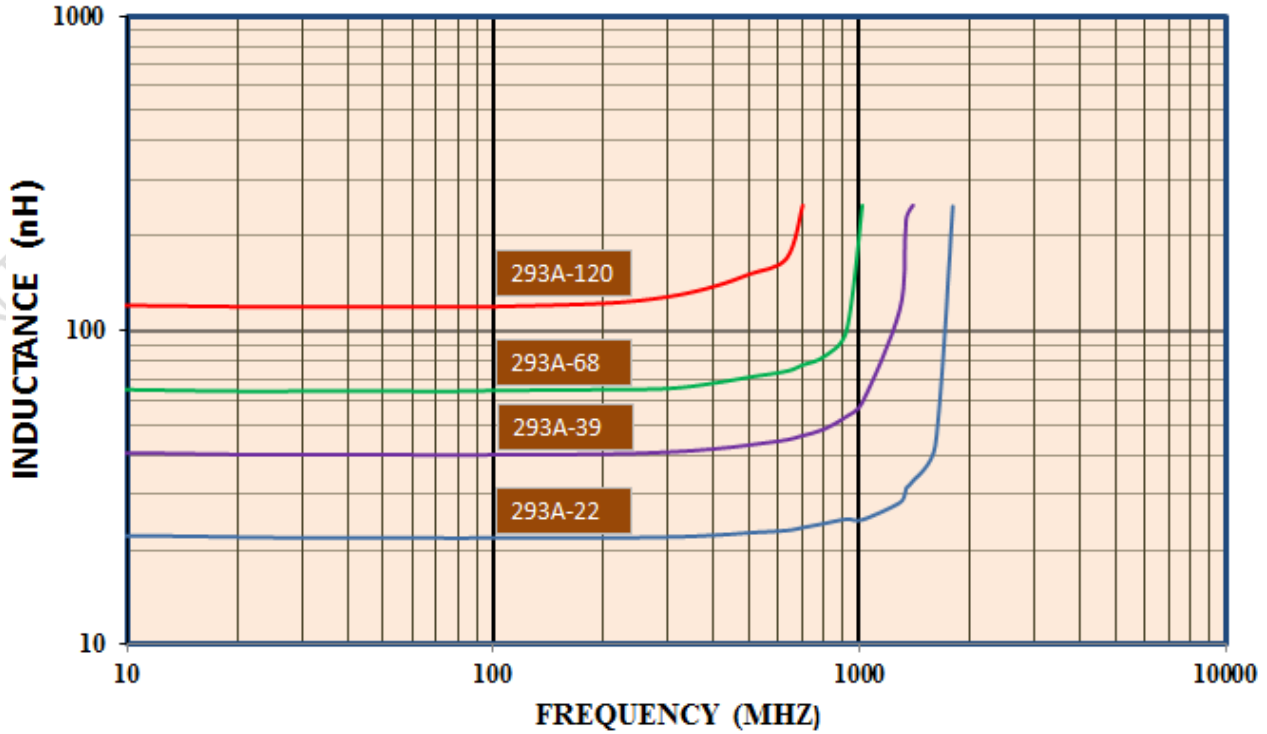
1. P/N: 293A-xxx\_, “293A” = Type, “xxx” = Dash number, “\_” = Inductance tolerance.
2. Tolerance “\_”: J: ± 5%, G: ± 2%
3. Test Frequency: 150MHz.
4. Small and lightweight surface mounting type
5. High Q at high frequency
6. High self-resonance frequency
7. Maximum Temperature Rise: 15°C (when measured at 25°C ambient)
8. Inductance & Q measured with HP4291B Impedance Analyzer with HP16193 test fixture
9. SRF measured using the HP8753E Network Analyzer or equivalent.
10. DCR measured using the Chroma 16502 or equivalent.
11. Operating temperature: -40°C to +125°C
12. Storage temp. : -40°C to +85°C.
13. Inductance and Current Range: From 22 nH (3000 mA) to 120 nH (1500 mA)
14. SRF: From 1100 MHz to 3200 MHz
15. 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

D. Characteristics curve:

Inductance vs. Frequency



Q vs. Frequency

