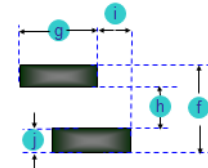
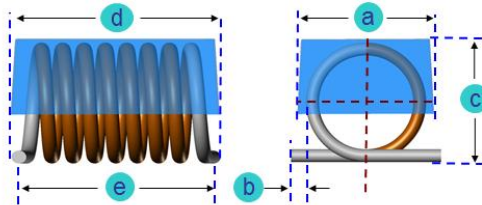
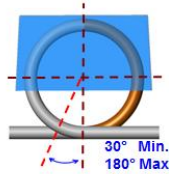
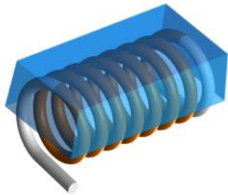


A. Electrical Specifications:

P/N	Turns	L (nH)	Tol.	Q Min.	Test Freq. (MHz)	DCR max. (mΩ)	SRF min. (GHz)	Irms (A)
291A-01_	1	2.5	K	145	150	1.1	12.5	4
291A-02_	2	5.0	J,G	140	150	1.8	6.5	4
291A-03_	3	8.0	J,G	140	150	2.6	5.0	4
291A-04_	4	12.5	J,G	137	150	3.4	3.3	4
291A-05_	5	18.5	J,G	132	150	3.9	2.5	4
291B-06_	6	17.5	J,G	100	150	4.5	2.2	4
291B-07_	7	22.0	J,G	102	150	5.2	2.1	4
291B-08_	8	28.0	J,G	105	150	6.0	1.8	4
291B-09_	9	35.5	J,G	112	150	6.8	1.5	4
291B-10_	10	43.0	J,G	106	150	7.9	1.2	4

B. Dimensions: mm (Inch):

Series	a	B	c	d	e	f	g	h	i	j
(Tol.)	Max.	±0.38 (0.015)	Max.	Max.	±0.25 (0.010)	Typ.	Typ.	Typ.	Typ.	Typ.
291A	3.05 (0.120)	0.58 (0.023)	3.18 (0.125)	3.68 (0.145)	2.92 (0.115)	4.19 (0.165)	3.30 (0.130)	1.65 (0.065)	2.79 (0.110)	1.27 (0.05)
291B	3.05 (0.120)	0.58 (0.023)	3.18 (0.125)	6.86 (0.270)	5.84 (0.230)	7.24 (0.285)	3.30 (0.130)	4.70 (0.185)	2.79 (0.110)	1.27 (0.05)



Foot Print

C. General Information:

1. P/N: 291A-xx_, "291A" = Type, "xx" = Dash number, "_" = Inductance tolerance
2. P/N: 291B-xx_, "291B" = Type, "xx" = Dash number, "_" = Inductance tolerance
3. Tolerance "_": K= ± 10%, J= ± 5%, G= ± 2%
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 2.5 nH (4.0 A) to 43.0 nH (4.0 A)
14. SRF: From 1.2 GHz to 12.5 GHz
15. MSL: Level 1

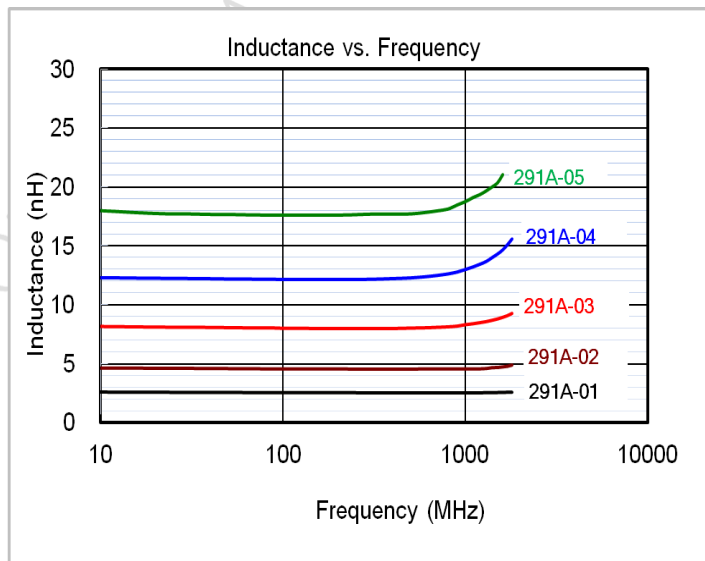
D. Applications:

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

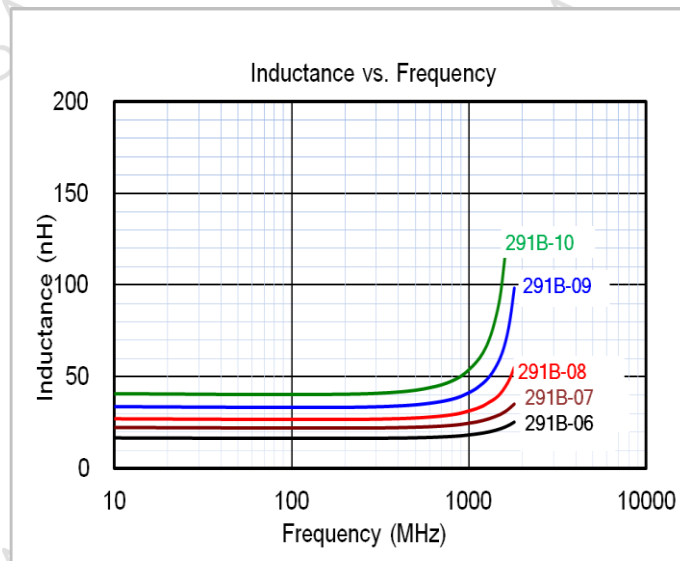
E. Characteristic Curve

Inductance vs. Frequency

291A Series

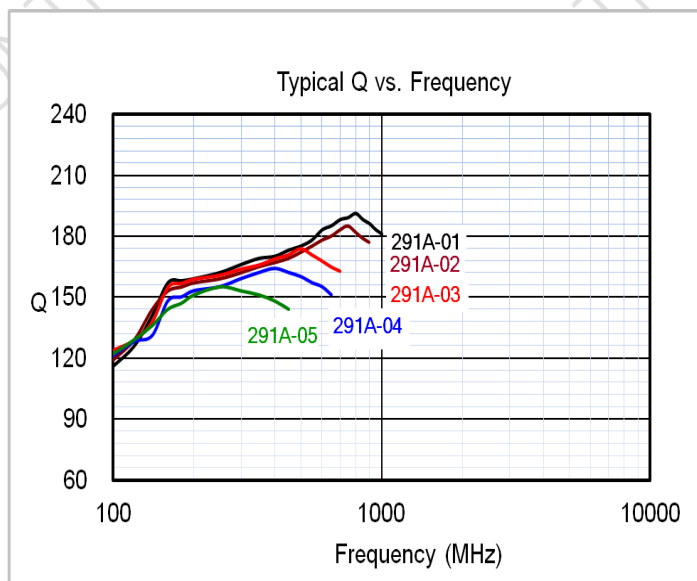


291B Series

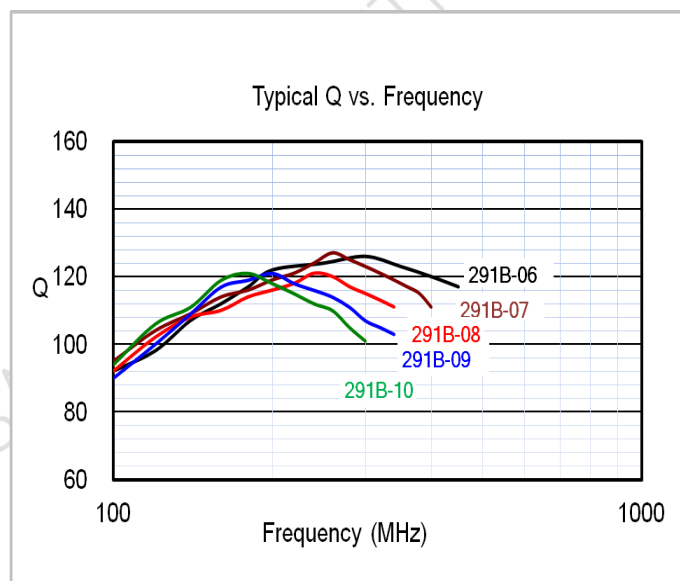


Q vs. Frequency

291A Series



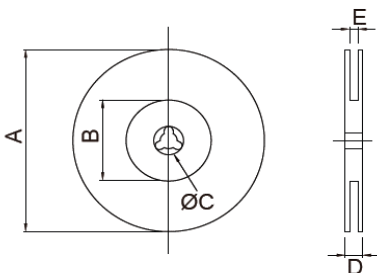
291B Series



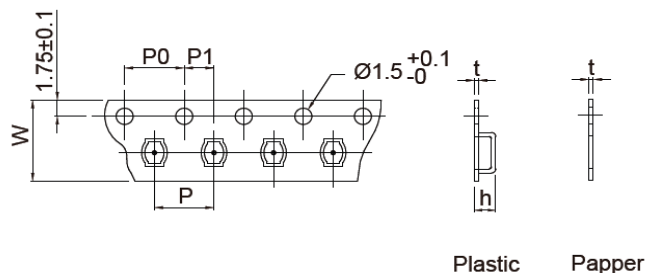
F. Supplementary Information:

1. Packaging Information

CARRIER TAPE REELS



TAPE DIMENSIONS (mm)



Series P/N	Reel dimensions (mm)					Tape dimensions (mm)						Parts per reel		Quantity per	
	A	B	C	D	E	W	P	P0	P1	h	t	7"	13"	Box	Carton
291A	180	75	13	16.5	12.5	12	8	4	2	3.30	0.25	500	---	2,000	12,000
291B	180	75	13	20.5	16.5	16	8	4	2	3.30	0.25	500	---	1,500	9,000

2. RoHS Reflow Solder Profile

Typical RoHS Reflow Profile

