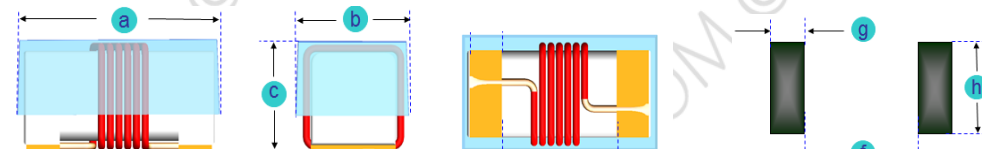


## A. Electrical Specifications:

P/N	L (nH)	L Test Freq. (MHz)	Tol.	Q Typ.	Q Test Freq. (MHz)	SRF Min. (MHz)	DCR Max. (mΩ)	I rms. Max. (mA)	1 <sup>st</sup> Color	2 <sup>nd</sup> Color	3 <sup>rd</sup> Color
1812CP-82N_	82	50	K, J, G	70	50	800	60	1500	Gray	Red	Black
1812CP-R15_	150	50	K, J, G	75	50	860	110	1150	Brown	Green	Brown
1812CP-R18_	180	50	K, J, G	80	50	850	110	1150	Brown	Gray	Brown
1812CP-R22_	220	50	K, J, G	80	50	700	105	940	Red	Red	Brown
1812CP-R27_	270	50	K, J, G	85	50	730	120	940	Red	Violet	Brown
1812CP-R33_	330	50	K, J, G	80	50	600	135	850	Orange	Orange	Brown
1812CP-R39_	390	50	K, J, G	80	50	600	140	850	Orange	White	Brown
1812CP-1R2_	1200	50	K, J, G	62	50	230	1200	480	Brown	Red	Red

## B. Dimensions: mm (Inch)

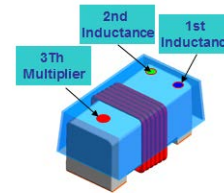
Series	a	b	c	f	g	h
1812CP	4.95(0.195)	3.8 (0.150)	3.43 (0.135)	3.0 (0.118)	1.14 (0.045)	3.05 (0.120)
	Max.	Max.	Max.	Typ.	Typ.	Typ.



## C. Color coding:

- Parts are marked with 3 color dots. The table at below shows the significance of each color.
- Dots 1 and 2 indicate the inductance in nano-Henries.
- Dot 3 indicates number of zeroes to be added.

0 = Black	5 = Green
1 = Brown	6 = Blue
2 = Red	7 = Violet
3 = Orange	8 = Gray
4 = Yellow	9 = White



## D. General Information:

- P/N: 1812CP-xxx\_, “1812CP” = Size Type, “xxx” = Inductance, “\_” = Tolerance.
- Tolerance “\_”: K: ± 10%, J: ± 5%, G: ± 2%.
- Small and lightweight surface mounting type.
- High Q at high frequency & High self-resonance frequency.
- For 15°C Temperature Rise at 25°C ambient.
- Inductance & Q measured with HP4291B Impedance Analyzer.
- SRF measured using the HP8720D or HP8753E Network Analyzer.
- DCR measured using the 16502 milliohm meter.
- Operating temperature: -40°C to +125°C.
- This series has no color code due to the size is small.
- Inductance and Current Range: From 82 nH (1500mA) to 1200 nH (480 mA)
- SRF: From 230 MHz to 860 MHz
- MSL: Level 1.

## E. Applications:

- Game Consoles
- Set Top Boxes
- Cables Modems
- Computers
- Mobile Communication Devices (Cell Phones, Radios, etc.)
- RF Filters



F. Characteristics Curve:

