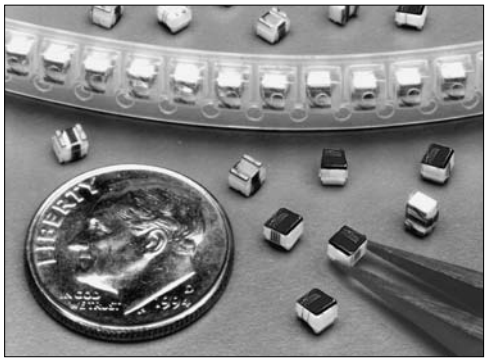
WIRE-WOUND RF CHIP INDUCTORS - 1206CD SERIES

Pulse
A TECHNITROL COMPANY



- Wirewound ceramic core construction
- High Inductance value and self resonant frequency
- Industry standard 1206 (3216) surface mount land pattern
- See page 3 for Competition Cross Reference

RoHS COMPLIANT

Electrical Specifications @ 25°C

Part Number	Inductance [1] (nH)	Standard Tolerance	Optional Tolerance	Q [2] (MIN)	SRF Min [3] (MHz MIN)	R_{DC} [4] (Ω MAX)	I_{DC} [5] (mA MAX)
PE-1206CD030KTT	3.3 @ 100MHz	±10% (K)	±5% (J), ±2% (G)	30 @ 300MHz	6200	0.05	1000
PE-1206CD060KTT	6.8 @ 100MHz	±10% (K)	±5% (J), ±2% (G)	30 @ 300MHz	5500	0.07	1000
PE-1206CD100KTT	10 @ 100MHz	±10% (K)	±5% (J), ±2% (G)	40 @ 300MHz	4000	0.08	1000
PE-1206CD120KTT	12 @ 100MHz	±10% (K)	±5% (J), ±2% (G)	40 @ 300MHz	3200	0.08	1000
PE-1206CD150KTT	15 @ 100MHz	±10% (K)	±5% (J), ±2% (G)	40 @ 300MHz	3200	0.10	1000
PE-1206CD180KTT	18 @ 100MHz	±10% (K)	±5% (J), ±2% (G)	50 @ 300MHz	2800	0.10	1000
PE-1206CD220KTT	22 @ 100MHz	±10% (K)	±5% (J), ±2% (G)	50 @ 300MHz	2200	0.10	1000
PE-1206CD270KTT	27 @ 100MHz	±10% (K)	±5% (J), ±2% (G)	50 @ 300MHz	1800	0.11	1000
PE-1206CD330KTT	33 @ 100MHz	±10% (K)	±5% (J), ±2% (G)	55 @ 300MHz	1800	0.11	1000
PE-1206CD390KTT	39 @ 100MHz	±10% (K)	±5% (J), ±2% (G)	55 @ 300MHz	1800	0.12	1000
PE-1206CD470KTT	47 @ 100MHz	±10% (K)	±5% (J), ±2% (G)	55 @ 300MHz	1500	0.13	1000
PE-1206CD560KTT	56 @ 100MHz	±10% (K)	±5% (J), ±2% (G)	55 @ 300MHz	1450	0.14	1000
PE-1206CD680KTT	68 @ 100MHz	±10% (K)	±5% (J), ±2% (G)	55 @ 300MHz	1200	0.26	900
PE-1206CD820KTT	82 @ 100MHz	±10% (K)	±5% (J), ±2% (G)	55 @ 300MHz	1200	0.21	900
PE-1206CD101KTT	100 @ 100 MHz	±10% (K)	±5% (J), ±2% (G)	55 @ 300MHz	1100	0.26	850
PE-1206CD121KTT	120 @ 100MHz	±10% (K)	±5% (J), ±2% (G)	60 @ 300MHz	1100	0.26	800
PE-1206CD151KTT	150 @ 100MHz	±10% (K)	±5% (J), ±2% (G)	60 @ 300MHz	950	0.31	750
PE-1206CD181KTT	180 @ 50MHz	±10% (K)	±5% (J), ±2% (G)	60 @ 300MHz	900	0.43	700
PE-1206CD221KTT	220 @ 50MHz	±10% (K)	±5% (J), ±2% (G)	60 @ 300MHz	760	0.50	670
PE-1206CD271KTT	270 @ 50MHz	±10% (K)	±5% (J), ±2% (G)	55 @ 300MHz	730	0.56	630
PE-1206CD331KTT	330 @ 50MHz	±10% (K)	±5% (J), ±2% (G)	45 @ 150MHz	650	0.62	590
PE-1206CD391KTT	390 @ 50MHz	±10% (K)	±5% (J), ±2% (G)	45 @ 150MHz	600	0.75	530
PE-1206CD471KTT	470 @ 50MHz	±10% (K)	±5% (J), ±2% (G)	45 @ 150MHz	550	1.30	490
PE-1206CD561KTT	560 @ 35MHz	±10% (K)	±5% (J), ±2% (G)	45 @ 150MHz	470	1.34	460
PE-1206CD621KTT	620 @ 35MHz	±10% (K)	±5% (J), ±2% (G)	45 @ 150MHz	470	1.58	430
PE-1206CD681KTT	680 @ 35MHz	±10% (K)	±5% (J), ±2% (G)	45 @ 150MHz	450	1.58	430
PE-1206CD751KTT	750 @ 35MHz	±10% (K)	±5% (J), ±2% (G)	45 @ 150MHz	440	2.25	400
PE-1206CD821KTT	820 @ 35MHz	±10% (K)	±5% (J), ±2% (G)	45 @ 150MHz	420	1.82	400
PE-1206CD911KTT	910 @ 35MHz	±10% (K)	±5% (J), ±2% (G)	45 @ 150MHz	410	2.95	400
PE-1206CD102KTT	1000 @ 35MHz	±10% (K)	±5% (J), ±2% (G)	45 @ 150MHz	400	2.80	320
PE-1206CD122KTT	1200 @ 35MHz	±10% (K)	±5% (J), ±2% (G)	45 @ 150MHz	380	3.20	300

Notes:

1. Inductance measured using a HP4286A RF Impedance Analyzer.
2. Q measured using a HP4291A RF Impedance Analyzer with a HP16193A Test Fixture.
3. SRF measured using a HP8753C Network Analyzer.
4. R_{DC} measured using a Valhalla Scientific model 4100 ATC Digital Ohmmeter.
5. Based on a 15ºC maximum temperature rise.
6. Sample Kit Part Number: **PE-1206CD KIT-T**
7. Component Weight: 0.035 grams typical.
8. These components are 0.060" in height.

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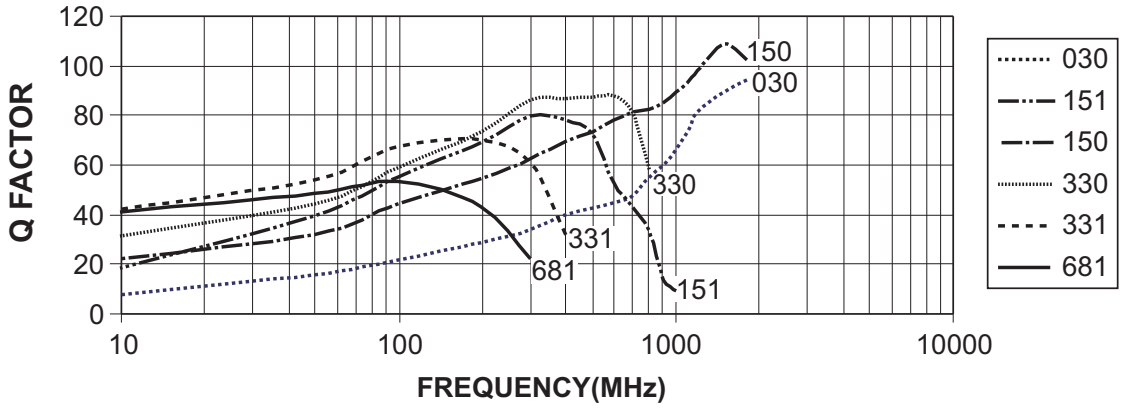
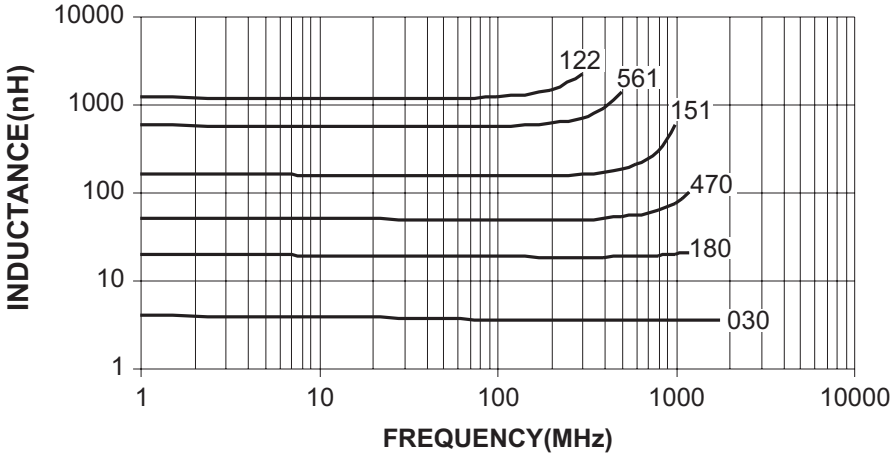
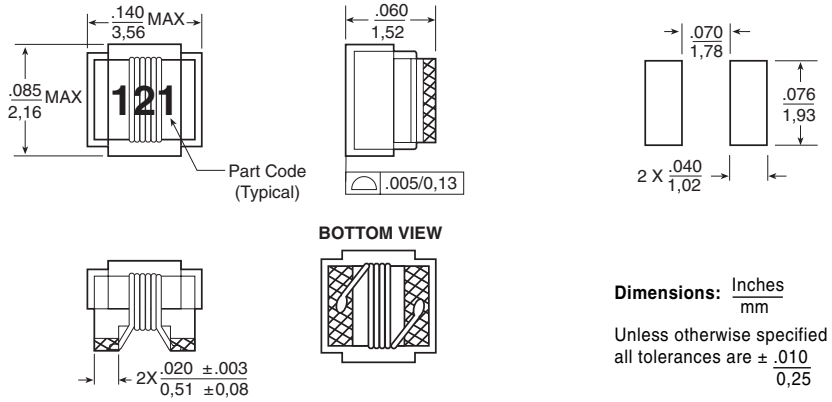
Typical Q vs Frequency



Typical Inductance vs Frequency



Mechanical



Dimensions: Inches / mm

Unless otherwise specified all tolerances are ± .010 / 0,25