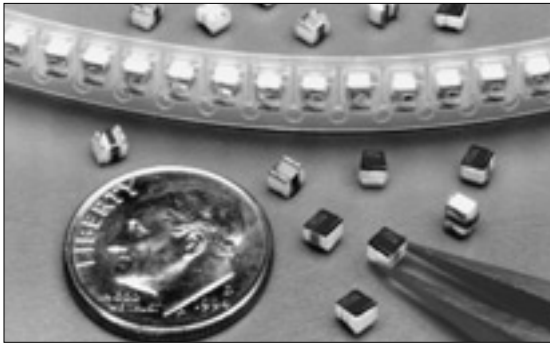


WIRE-WOUND RF CHIP INDUCTORS - 1008CD SERIES



- Wirewound ceramic core construction
- High Q values and high self-resonant frequency
- Tin/lead terminations
- Industry standard 1008 (2520) surface mount land pattern
- See page 3 for Competition Cross Reference

Electrical Specifications @ 25°C

Part Number	Inductance ¹ (nH)	Standard Tolerance	Optional Tolerance	Q ² (MIN)	SRF ³ (MHz MIN)	R _{DC} ⁴ (Ω MAX)	I _{DC} ⁵ (mA MAX)
PE-1008CD040KTT ⁹	4.7 @ 50 MHz	± 10% (K)	± 5% (J), ± 2% (G)	50 @ 500 MHz	6000	0.15	600
PE-1008CD080KTT ⁹	8.2 @ 50 MHz	± 10% (K)	± 5% (J), ± 2% (G)	50 @ 500 MHz	5000	0.22	600
PE-1008CD100KTT	10 @ 50 MHz	± 10% (K)	± 5% (J), ± 2% (G)	50 @ 500 MHz	4100	0.08	1000
PE-1008CD120KTT	12 @ 50 MHz	± 10% (K)	± 5% (J), ± 2% (G)	50 @ 500 MHz	3300	0.09	1000
PE-1008CD150KTT	15 @ 50 MHz	± 10% (K)	± 5% (J), ± 2% (G)	50 @ 500 MHz	2500	0.10	1000
PE-1008CD180KTT	18 @ 50 MHz	± 10% (K)	± 5% (J), ± 2% (G)	50 @ 350 MHz	2500	0.11	1000
PE-1008CD220KTT	22 @ 50 MHz	± 10% (K)	± 5% (J), ± 2% (G)	55 @ 350 MHz	2400	0.12	1000
PE-1008CD270KTT	27 @ 50 MHz	± 10% (K)	± 5% (J), ± 2% (G)	55 @ 350 MHz	1600	0.13	1000
PE-1008CD330KTT	33 @ 50 MHz	± 10% (K)	± 5% (J), ± 2% (G)	60 @ 350 MHz	1600	0.14	1000
PE-1008CD390KTT	39 @ 50 MHz	± 10% (K)	± 5% (J), ± 2% (G)	60 @ 350 MHz	1500	0.15	1000
PE-1008CD470KTT	47 @ 50 MHz	± 10% (K)	± 5% (J), ± 2% (G)	65 @ 350 MHz	1500	0.16	1000
PE-1008CD560KTT	56 @ 50 MHz	± 10% (K)	± 5% (J), ± 2% (G)	65 @ 350 MHz	1300	0.18	1000
PE-1008CD680KTT	68 @ 50 MHz	± 10% (K)	± 5% (J), ± 2% (G)	65 @ 350 MHz	1300	0.20	1000
PE-1008CD820KTT	82 @ 50 MHz	± 10% (K)	± 5% (J), ± 2% (G)	60 @ 350 MHz	1000	0.22	1000
PE-1008CD101KTT	100 @ 25 MHz	± 10% (K)	± 5% (J), ± 2% (G)	60 @ 350 MHz	1000	0.56	650
PE-1008CD121KTT	120 @ 25 MHz	± 10% (K)	± 5% (J), ± 2% (G)	60 @ 350 MHz	950	0.63	650
PE-1008CD151KTT	150 @ 25 MHz	± 10% (K)	± 5% (J), ± 2% (G)	45 @ 100 MHz	850	0.70	580
PE-1008CD181KTT	180 @ 25 MHz	± 10% (K)	± 5% (J), ± 2% (G)	45 @ 100 MHz	750	0.77	620
PE-1008CD221KTT	220 @ 25 MHz	± 10% (K)	± 5% (J), ± 2% (G)	45 @ 100 MHz	700	0.84	500
PE-1008CD271KTT	270 @ 25 MHz	± 10% (K)	± 5% (J), ± 2% (G)	45 @ 100 MHz	600	0.91	500
PE-1008CD331KTT	330 @ 25 MHz	± 10% (K)	± 5% (J), ± 2% (G)	45 @ 100 MHz	570	1.05	450
PE-1008CD391KTT	390 @ 25 MHz	± 10% (K)	± 5% (J), ± 2% (G)	45 @ 100 MHz	500	1.12	470
PE-1008CD471KTT	470 @ 25 MHz	± 10% (K)	± 5% (J), ± 2% (G)	45 @ 100 MHz	450	1.19	470
PE-1008CD561KTT	560 @ 25 MHz	± 10% (K)	± 5% (J), ± 2% (G)	45 @ 100 MHz	415	1.33	400
PE-1008CD621KTT	620 @ 25 MHz	± 10% (K)	± 5% (J), ± 2% (G)	45 @ 100 MHz	375	1.40	300
PE-1008CD681KTT	680 @ 25 MHz	± 10% (K)	± 5% (J), ± 2% (G)	45 @ 100 MHz	375	1.47	400
PE-1008CD751KTT	750 @ 25 MHz	± 10% (K)	± 5% (J), ± 2% (G)	45 @ 100 MHz	360	1.54	360
PE-1008CD821KTT	820 @ 25 MHz	± 10% (K)	± 5% (J), ± 2% (G)	45 @ 100 MHz	350	1.61	400
PE-1008CD911KTT	910 @ 25 MHz	± 10% (K)	± 5% (J), ± 2% (G)	35 @ 50 MHz	320	1.68	380
PE-1008CD102KTT	1000 @ 25 MHz	± 10% (K)	± 5% (J), ± 2% (G)	35 @ 50 MHz	290	1.75	370
PE-1008CD122KTT	1200 @ 7.9 MHz	± 10% (K)	± 5% (J), ± 2% (G)	35 @ 50 MHz	250	2.00	310
PE-1008CD152KTT	1500 @ 7.9 MHz	± 10% (K)	± 5% (J), ± 2% (G)	28 @ 50 MHz	200	2.30	330
PE-1008CD182KTT	1800 @ 7.9 MHz	± 10% (K)	± 5% (J), ± 2% (G)	28 @ 50 MHz	160	2.60	300
PE-1008CD222KTT	2200 @ 7.9 MHz	± 10% (K)	± 5% (J), ± 2% (G)	28 @ 50 MHz	160	2.80	280
PE-1008CD272KTT	2700 @ 7.9 MHz	± 10% (K)	± 5% (J), ± 2% (G)	22 @ 25 MHz	140	3.20	290
PE-1008CD332KTT	3300 @ 7.9 MHz	± 10% (K)	± 5% (J), ± 2% (G)	22 @ 25 MHz	110	3.40	290
PE-1008CD392KTT	3900 @ 7.9 MHz	± 10% (K)	± 5% (J), ± 2% (G)	20 @ 25 MHz	100	3.60	260
PE-1008CD472KTT	4700 @ 7.9 MHz	± 10% (K)	± 5% (J)	20 @ 25 MHz	90	4.00	260
PE-1008CD562KTT	5600 @ 7.9 MHz	± 10% (K)	± 5% (J)	20 @ 25 MHz	70	4.50	240

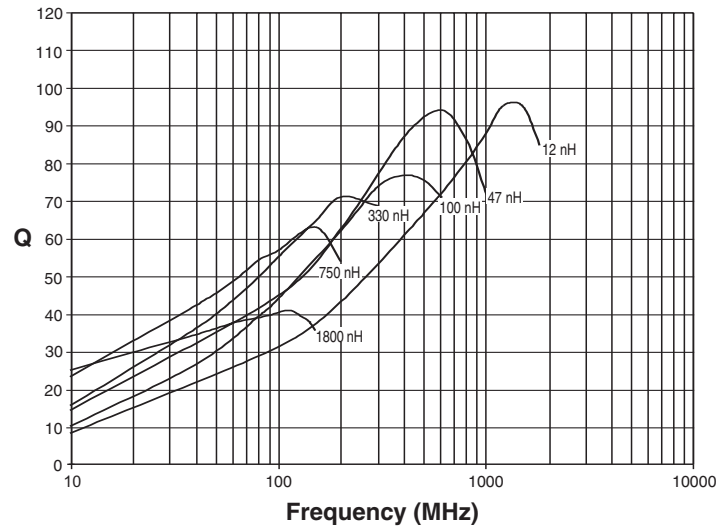
Notes:

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 15°C maximum temperature rise.
6. Sample Kit Part Number: **PE-1008CDKIT-T**
7. Component Weight: 0.032 grams typical.
8. These components are 0.055" in height.

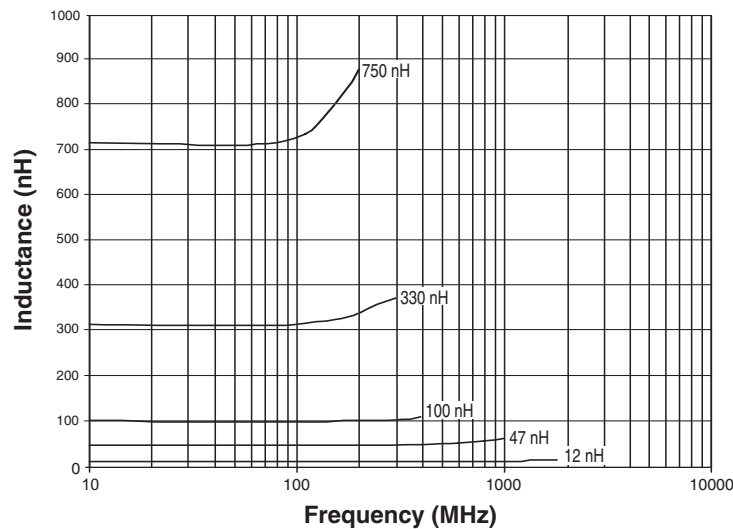
WIRE-WOUND RF CHIP INDUCTORS - 1008CD SERIES



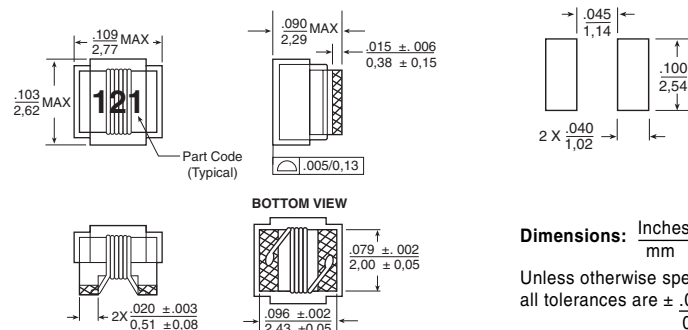
Typical Q vs Frequency



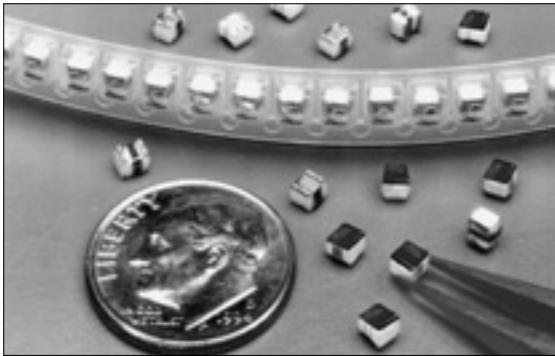
Typical Inductance vs Frequency



Mechanical



WIRE-WOUND RF CHIP INDUCTORS - 1008CM SERIES



- ⚙ Wirewound ceramic core construction
- ⚙ High Q values
- ⚙ High self resonant frequency
- ⚙ Tin/lead terminations
- ⚙ Industry standard 1008 (2520) surface mount land pattern
- ⚙ See page 3 for Competition Cross Reference

Electrical Specifications @ 25°C

Part Number	Inductance ¹ (nH)	Standard Tolerance	Optional Tolerances	Q ² (MIN)	SRF Min ³ (MHz MIN)	R _{DC} ⁴ (Ω MAX)	I _{DC} ⁵ (mA MAX)
PE-1008CM040MTT	4.7 @ 50 MHz	±10% (K)	±20% (M)	60 @ 1500 MHz	6000	0.025	1000
PE-1008CM080MTT	8.2 @ 50 MHz	±10% (K)	±20% (M)	60 @ 1500 MHz	6000	0.050	1000
PE-1008CM100KTT	10 @ 50 MHz	±10% (K)	±5% (J)	50 @ 500 MHz	5000	0.090	1000
PE-1008CM120KTT	12 @ 50 MHz	±10% (K)	±5% (J)	65 @ 500 MHz	2300	0.090	1000
PE-1008CM150KTT	15 @ 50 MHz	±10% (K)	±5% (J)	55 @ 500 MHz	1850	0.190	1000
PE-1008CM180KTT	18 @ 50 MHz	±10% (K)	±5% (J)	55 @ 350 MHz	2200	0.060	1000
PE-1008CM220KTT	22 @ 50 MHz	±10% (K)	±5% (J)	55 @ 350 MHz	1800	0.090	1000
PE-1008CM270KTT	27 @ 50 MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	60 @ 350 MHz	1500	0.090	1000
PE-1008CM330KTT	33 @ 50 MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	60 @ 350 MHz	1800	0.180	800
PE-1008CM390KTT	39 @ 50 MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	70 @ 350 MHz	1400	0.120	1000
PE-1008CM470KTT	47 @ 50 MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	70 @ 350 MHz	1200	0.075	1000
PE-1008CM560KTT	56 @ 50 MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	60 @ 350 MHz	1150	0.120	1000
PE-1008CM680KTT	68 @ 50 MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	70 @ 350 MHz	1100	0.070	1000
PE-1008CM820KTT	82 @ 50 MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	65 @ 350 MHz	950	0.140	950
PE-1008CM101KTT	100 @ 25 MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	65 @ 350 MHz	900	0.150	650
PE-1008CM121KTT	120 @ 25 MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	60 @ 350 MHz	825	0.220	650
PE-1008CM151KTT	150 @ 25 MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	50 @ 100 MHz	625	0.160	580
PE-1008CM181KTT	180 @ 25 MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	50 @ 100 MHz	650	0.250	620
PE-1008CM221KTT	220 @ 25 MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	50 @ 100 MHz	625	0.240	500
PE-1008CM271KTT	270 @ 25 MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	45 @ 100 MHz	525	0.500	500
PE-1008CM331KTT	330 @ 25 MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	50 @ 100 MHz	500	0.800	450
PE-1008CM371KTT	370 @ 25 MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	50 @ 100 MHz	490	0.750	430
PE-1008CM391KTT	390 @ 25 MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	50 @ 100 MHz	475	0.750	425
PE-1008CM401KTT	400 @ 25 MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	50 @ 100 MHz	470	0.750	420
PE-1008CM471KTT	470 @ 25 MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	50 @ 100 MHz	450	0.700	350
PE-1008CM561KTT	560 @ 25 MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	50 @ 100 MHz	425	0.800	350
PE-1008CM621KTT	620 @ 25 MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	45 @ 100 MHz	375	1.900	200
PE-1008CM681KTT	680 @ 25 MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	45 @ 100 MHz	375	2.300	200
PE-1008CM751KTT	750 @ 25 MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	45 @ 100 MHz	350	1.600	200
PE-1008CM821KTT	820 @ 25 MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	40 @ 100 MHz	325	3.300	200
PE-1008CM911KTT	910 @ 25 MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	40 @ 50 MHz	300	2.100	200
PE-1008CM102KTT	1000 @ 25 MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	40 @ 50 MHz	300	1.700	200
PE-1008CM122KTT	1200 @ 10 MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	40 @ 50 MHz	250	3.000	200
PE-1008CM152KTT	1500 @ 10 MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	40 @ 50 MHz	200	3.800	150
PE-1008CM182KTT	1800 @ 10 MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	40 @ 50 MHz	150	4.000	150
PE-1008CM222KTT	2200 @ 10 MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	30 @ 25 MHz	80	4.400	150
PE-1008CM272KTT	2700 @ 10 MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	30 @ 25 MHz	90	7.000	150
PE-1008CM332KTT	3300 @ 10 MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	25 @ 15 MHz	40	7.800	150
PE-1008CM392KTT	3900 @ 10 MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	20 @ 15 MHz	35	8.300	135
PE-1008CM472KTT	4700 @ 10 MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	16 @ 15 MHz	25	6.000	150

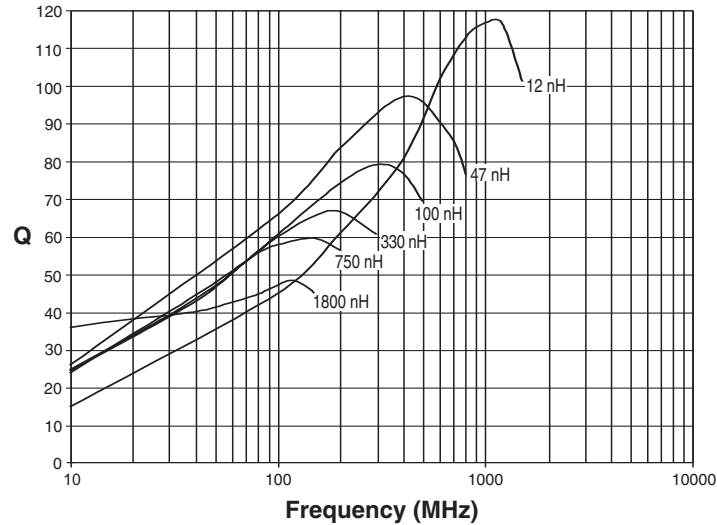
Notes:

- Inductance measured using a HP4191A RF Impedance Analyzer.
- Q measured using a HP4291A RF Impedance Analyzer with a HP16193A Test Fixture.
- SRF measured using a HP8753C Network Analyzer.
- R_{DC} measured using a Valhalla Scientific model 4100 ATC Digital Ohmmeter.
- Based on a 15°C maximum temperature rise.
- Component Weight: 0.032 grams typical.

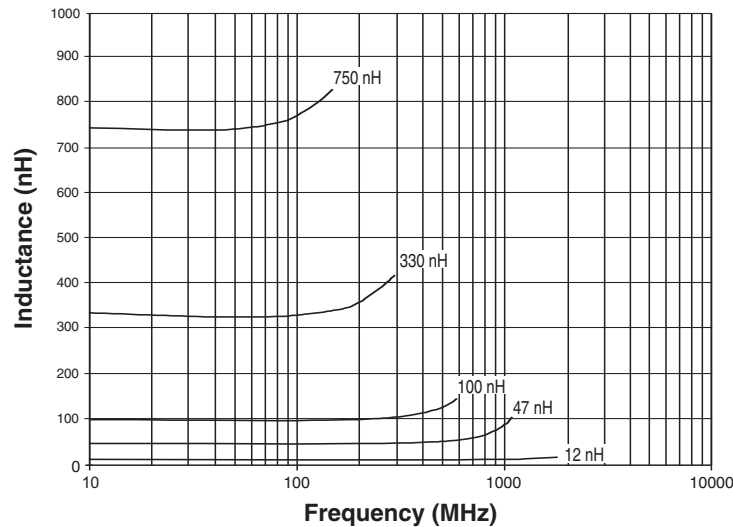
WIRE-WOUND RF CHIP INDUCTORS - 1008CM SERIES



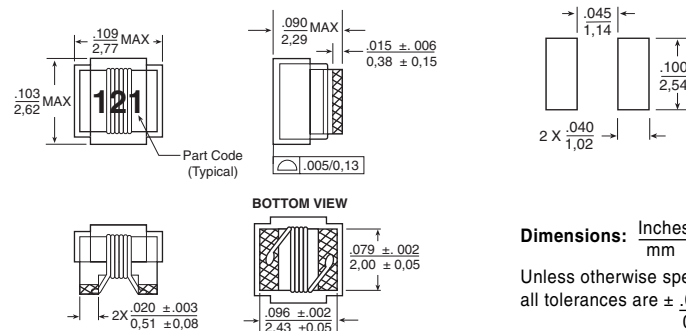
Typical Q vs Frequency



Typical Inductance vs Frequency

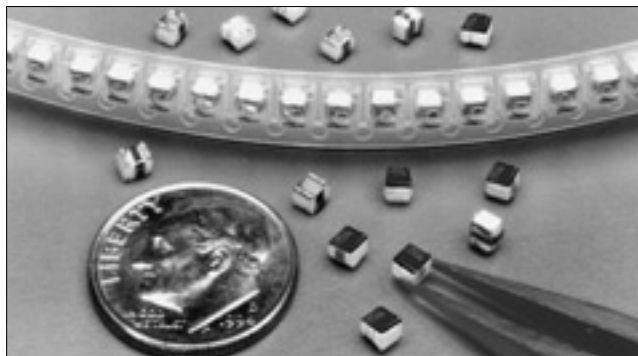


Mechanical



Dimensions: $\frac{\text{Inches}}{\text{mm}}$
Unless otherwise specified
all tolerances are $\pm .010$
 $0,25$

WIRE-WOUND RF CHIP INDUCTORS - 1008CQ SERIES



- ⌚ Wirewound ceramic core construction
- ⌚ High Q and high Idc values
- ⌚ High self resonant frequency
- ⌚ Tin/lead terminations
- ⌚ Industry standard 1008 (2520) surface mount land pattern
- ⌚ Refer to page 3 for Competition Cross Reference

Electrical Specifications @ 25°C

Part Number	Inductance ¹ (nH)	Standard Tolerance	Optional Tolerances	Q ² (MIN)	SRF Min ³ (MHz MIN)	R _{DC} ⁴ (Ω MAX)	I _{DC} ⁵ (mA MAX)
PE-1008CQ3N0KTT	3.0 @ 50 MHz	±10% (K)	±5% (J)	70 @ 1500 MHz	6000	0.04	1600
PE-1008CQ4N1KTT	4.1 @ 50 MHz	±10% (K)	±5% (J)	75 @ 1500 MHz	6000	0.05	1600
PE-1008CQ7N8KTT	7.8 @ 50 MHz	±10% (K)	±5% (J)	75 @ 1500 MHz	3800	0.05	1600
PE-1008CQ100KTT	10 @ 50 MHz	±10% (K)	±5% (J)	60 @ 500 MHz	3600	0.06	1600
PE-1008CQ120KTT	12 @ 50 MHz	±10% (K)	±5% (J)	70 @ 500 MHz	2800	0.06	1500
PE-1008CQ180KTT	18 @ 50 MHz	±10% (K)	±5% (J)	62 @ 350 MHz	2700	0.07	1400
PE-1008CQ220KTT	22 @ 50 MHz	±10% (K)	±5% (J)	62 @ 350 MHz	2050	0.07	1400
PE-1008CQ330KTT	33 @ 50 MHz	±10% (K)	±5% (J)	75 @ 350 MHz	1700	0.09	1300
PE-1008CQ390KTT	39 @ 50 MHz	±10% (K)	±5% (J)	75 @ 350 MHz	1300	0.09	1300
PE-1008CQ470KTT	47 @ 50 MHz	±10% (K)	±5% (J)	75 @ 350 MHz	1450	0.12	1200
PE-1008CQ560KTT	56 @ 50 MHz	±10% (K)	±5% (J)	75 @ 350 MHz	1230	0.12	1200
PE-1008CQ680KTT	68 @ 50 MHz	±10% (K)	±5% (J)	80 @ 350 MHz	1150	0.13	1100
PE-1008CQ820KTT	82 @ 50 MHz	±10% (K)	±5% (J)	80 @ 350 MHz	1060	0.16	1100
PE-1008CQ101KTT	100 @ 50 MHz	±10% (K)	±5% (J)	62 @ 350 MHz	820	0.16	1000
PE-1008CQ221KTT	220 @ 50 MHz	±10% (K)	±5% (J)	56 @ 350 MHz	680	0.18	900

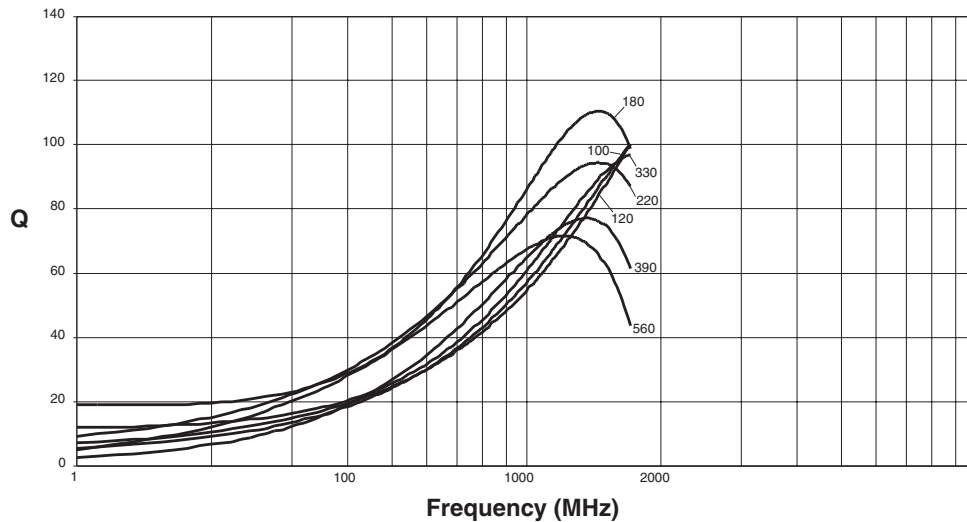
Notes:

1. Inductance measured using a HP4191A 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 15°C maximum temperature rise.
6. Component Weight: 0.032 grams typical.

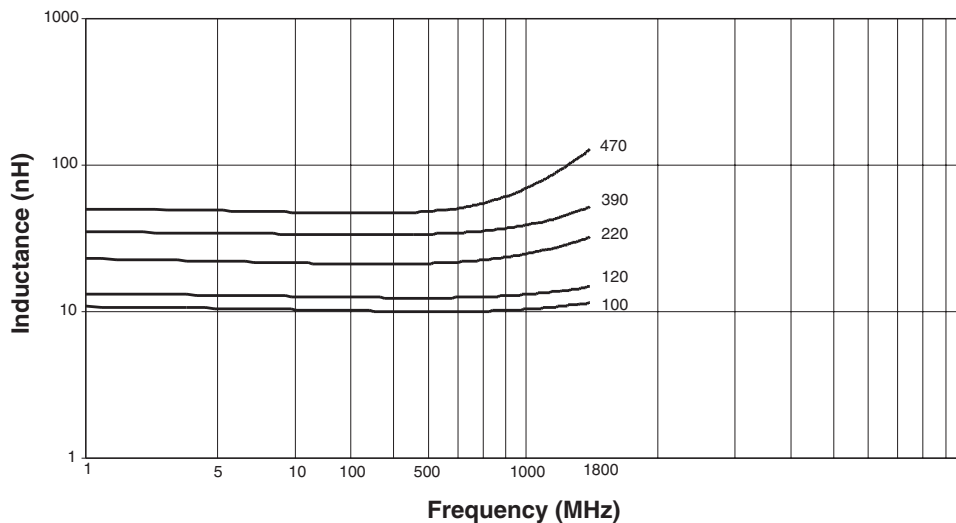
WIRE-WOUND RF CHIP INDUCTORS - 1008CQ SERIES



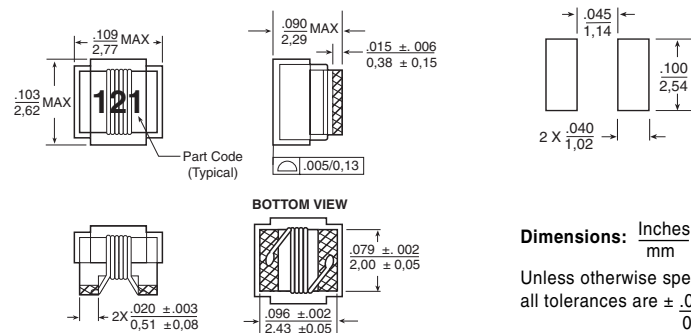
Typical Q vs Frequency



Typical Inductance vs Frequency

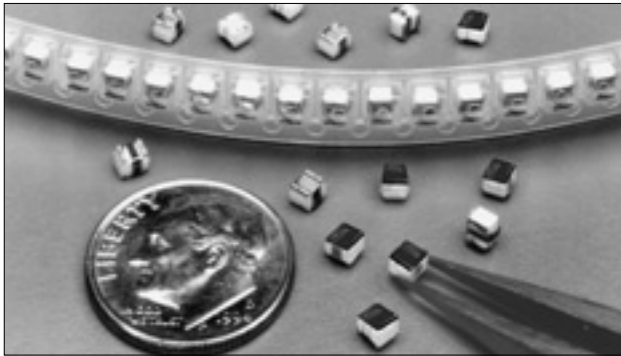


Mechanical



Dimensions: Inches
mm
Unless otherwise specified
all tolerances are $\pm .010$
0,25

WIRE-WOUND RF CHIP INDUCTORS - 1008FD SERIES



-  Wirewound ferrite core construction
-  High Inductance value and low Rdc
-  Tin/lead terminations
-  Industry standard 1008 (2520) surface mount land pattern
-  Refer to page 3 for Competition Cross Reference

Electrical Specifications @ 25°C

Part Number	Inductance ¹ (μ H)	Standard Tolerance	Optional Tolerances	Q ² (MIN)	SRF Min ³ (MHz MIN)	R _{DC} ⁴ (Ω MAX)	I _{DC} ⁵ (mA MAX)
PE-1008FD151KTT	0.15 @ 25 MHz	$\pm 10\%$	$\pm 5\%$	45 @ 100 MHz	500.0	0.35	750
PE-1008FD181KTT	0.18 @ 25 MHz	$\pm 10\%$	$\pm 5\%$	45 @ 100 MHz	500.0	0.40	750
PE-1008FD331KTT	0.33 @ 25 MHz	$\pm 10\%$	$\pm 5\%$	45 @ 100 MHz	500.0	0.50	700
PE-1008FD122KTT	1.20 @ 7.9 MHz	$\pm 10\%$	$\pm 5\%$	48 @ 50 MHz	210.0	0.68	650
PE-1008FD152KTT	1.50 @ 7.9 MHz	$\pm 10\%$	$\pm 5\%$	41 @ 50 MHz	190.0	0.76	630
PE-1008FD182KTT	1.80 @ 7.9 MHz	$\pm 10\%$	$\pm 5\%$	39 @ 50 MHz	170.0	0.84	600
PE-1008FD222KTT	2.20 @ 7.9 MHz	$\pm 10\%$	$\pm 5\%$	34 @ 50 MHz	150.0	1.10	520
PE-1008FD272KTT	2.70 @ 7.9 MHz	$\pm 10\%$	$\pm 5\%$	34 @ 50 MHz	135.0	1.28	490
PE-1008FD332KTT	3.30 @ 7.9 MHz	$\pm 10\%$	$\pm 5\%$	32 @ 50 MHz	120.0	1.46	450
PE-1008FD392KTT	3.90 @ 7.9 MHz	$\pm 10\%$	$\pm 5\%$	32 @ 7.9 MHz	105.0	1.56	420
PE-1008FD472KTT	4.70 @ 7.9 MHz	$\pm 10\%$	$\pm 5\%$	31 @ 7.9 MHz	90.0	1.68	400
PE-1008FD562KTT	5.60 @ 7.9 MHz	$\pm 10\%$	$\pm 5\%$	31 @ 7.9 MHz	80.0	1.82	380
PE-1008FD682KTT	6.80 @ 7.9 MHz	$\pm 10\%$	$\pm 5\%$	31 @ 7.9 MHz	70.0	2.00	360
PE-1008FD822KTT	8.20 @ 7.9 MHz	$\pm 10\%$	$\pm 5\%$	23 @ 7.9 MHz	65.0	2.65	330
PE-1008FD103KTT	10.00 @ 7.9 MHz	$\pm 10\%$	$\pm 5\%$	31 @ 7.9 MHz	60.0	2.95	300

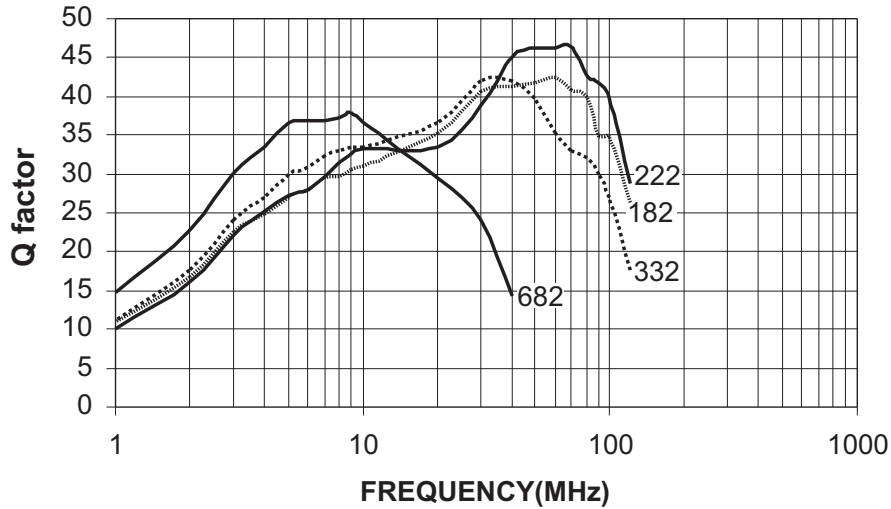
Notes:

1. Inductance measured using a HP4191A 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 15°C maximum temperature rise.
6. Component Weight: 0.032 grams typical.
7. Sample Kit Part Number: **PE-1008FDKIT-T**

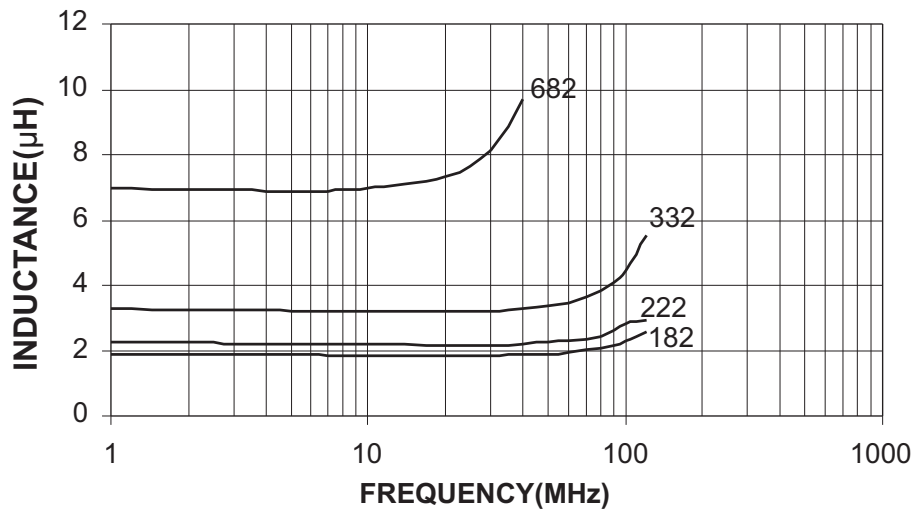
WIRE-WOUND RF CHIP INDUCTORS - 1008FD SERIES



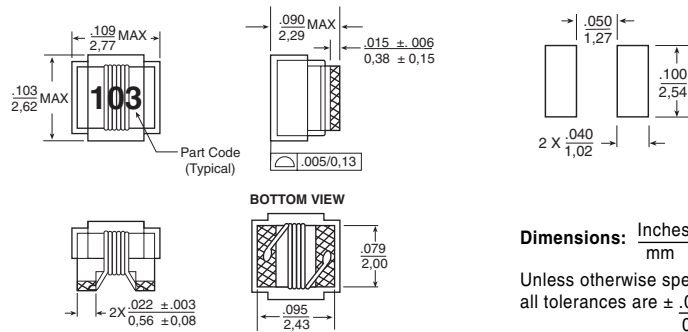
Typical Q vs Frequency



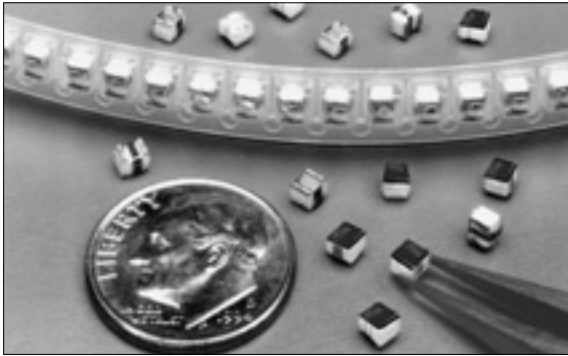
Typical Inductance vs Frequency



Mechanical



WIRE-WOUND RF CHIP INDUCTORS - 1210FT SERIES



-  Wirewound ferrite core construction
-  High Inductance value and low Rdc
-  Tin/lead terminations
-  Industry standard 1210 (3225) SMT land pattern
-  Refer to page 3 for Competition Cross Reference

Electrical Specifications @ 25°C

Part Number	Inductance ¹ (μ H)	Standard Tolerance	Optional Tolerances	Q ² (MIN)	SRF Min ³ (MHz MIN)	Rdc ⁴ (Ω MAX)	Icc ⁵ (mA MAX)
PE-1210FT100KTT	0.010 @ 100 MHz	$\pm 10\%$	$\pm 5\%$	15 @ 100 MHz	2500	0.13	450
PE-1210FT120KTT	0.012 @ 100 MHz	$\pm 10\%$	$\pm 5\%$	17 @ 100 MHz	2300	0.14	450
PE-1210FT150KTT	0.015 @ 100 MHz	$\pm 10\%$	$\pm 5\%$	19 @ 100 MHz	2100	0.16	450
PE-1210FT180KTT	0.018 @ 100 MHz	$\pm 10\%$	$\pm 5\%$	21 @ 100 MHz	1900	0.18	450
PE-1210FT220KTT	0.022 @ 100 MHz	$\pm 10\%$	$\pm 5\%$	23 @ 100 MHz	1700	0.20	450
PE-1210FT270KTT	0.027 @ 100 MHz	$\pm 10\%$	$\pm 5\%$	23 @ 100 MHz	1500	0.22	450
PE-1210FT330KTT	0.033 @ 100 MHz	$\pm 10\%$	$\pm 5\%$	25 @ 100 MHz	1400	0.24	450
PE-1210FT390KTT	0.039 @ 100 MHz	$\pm 10\%$	$\pm 5\%$	25 @ 100 MHz	1300	0.27	450
PE-1210FT470KTT	0.047 @ 100 MHz	$\pm 10\%$	$\pm 5\%$	26 @ 100 MHz	1200	0.30	450
PE-1210FT560KTT	0.056 @ 100 MHz	$\pm 10\%$	$\pm 5\%$	26 @ 100 MHz	1100	0.33	450
PE-1210FT680KTT	0.068 @ 100 MHz	$\pm 10\%$	$\pm 5\%$	27 @ 100 MHz	1000	0.36	450
PE-1210FT820KTT	0.082 @ 100 MHz	$\pm 10\%$	$\pm 5\%$	27 @ 100 MHz	900	0.40	450
PE-1210FT101KTT	0.100 @ 100 MHz	$\pm 10\%$	$\pm 5\%$	28 @ 100 MHz	700	0.44	450
PE-1210FT121KTT	0.120 @ 25.2 MHz	$\pm 10\%$	$\pm 5\%$	30 @ 25.2 MHz	500	0.22	450
PE-1210FT151KTT	0.150 @ 25.2 MHz	$\pm 10\%$	$\pm 5\%$	30 @ 25.2 MHz	450	0.25	450
PE-1210FT181KTT	0.180 @ 25.2 MHz	$\pm 10\%$	$\pm 5\%$	30 @ 25.2 MHz	400	0.28	450
PE-1210FT221KTT	0.220 @ 25.2 MHz	$\pm 10\%$	$\pm 5\%$	30 @ 25.2 MHz	350	0.32	450
PE-1210FT271KTT	0.270 @ 25.2 MHz	$\pm 10\%$	$\pm 5\%$	30 @ 25.2 MHz	320	0.36	450
PE-1210FT331KTT	0.330 @ 25.2 MHz	$\pm 10\%$	$\pm 5\%$	30 @ 25.2 MHz	300	0.40	450
PE-1210FT391KTT	0.390 @ 25.2 MHz	$\pm 10\%$	$\pm 5\%$	30 @ 25.2 MHz	250	0.45	450
PE-1210FT471KTT	0.470 @ 25.2 MHz	$\pm 10\%$	$\pm 5\%$	30 @ 25.2 MHz	220	0.50	450
PE-1210FT561KTT	0.560 @ 25.2 MHz	$\pm 10\%$	$\pm 5\%$	30 @ 25.2 MHz	180	0.55	450
PE-1210FT681KTT	0.680 @ 25.2 MHz	$\pm 10\%$	$\pm 5\%$	30 @ 25.2 MHz	160	0.60	450
PE-1210FT821KTT	0.820 @ 25.2 MHz	$\pm 10\%$	$\pm 5\%$	30 @ 25.2 MHz	140	0.65	450
PE-1210FT102KTT	1.000 @ 7.96 MHz	$\pm 10\%$	$\pm 5\%$	30 @ 7.96 MHz	120	0.70	400
PE-1210FT122KTT	1.200 @ 7.96 MHz	$\pm 10\%$	$\pm 5\%$	30 @ 7.96 MHz	100	0.75	390
PE-1210FT152KTT	1.500 @ 7.96 MHz	$\pm 10\%$	$\pm 5\%$	30 @ 7.96 MHz	85	0.85	370
PE-1210FT182KTT	1.800 @ 7.96 MHz	$\pm 10\%$	$\pm 5\%$	30 @ 7.96 MHz	80	0.90	350
PE-1210FT222KTT	2.200 @ 7.96 MHz	$\pm 10\%$	$\pm 5\%$	30 @ 7.96 MHz	75	1.00	320
PE-1210FT272KTT	2.700 @ 7.96 MHz	$\pm 10\%$	$\pm 5\%$	30 @ 7.96 MHz	70	1.10	290
PE-1210FT332KTT	3.300 @ 7.96 MHz	$\pm 10\%$	$\pm 5\%$	30 @ 7.96 MHz	60	1.20	260
PE-1210FT392KTT	3.900 @ 7.96 MHz	$\pm 10\%$	$\pm 5\%$	30 @ 7.96 MHz	55	1.30	250
PE-1210FT472KTT	4.700 @ 7.96 MHz	$\pm 10\%$	$\pm 5\%$	30 @ 7.96 MHz	50	1.50	224
PE-1210FT562KTT	5.600 @ 7.96 MHz	$\pm 10\%$	$\pm 5\%$	30 @ 7.96 MHz	45	1.60	204
PE-1210FT682KTT	6.800 @ 7.96 MHz	$\pm 10\%$	$\pm 5\%$	30 @ 7.96 MHz	40	1.80	180
PE-1210FT822KTT	8.200 @ 7.96 MHz	$\pm 10\%$	$\pm 5\%$	30 @ 7.96 MHz	35	2.00	170
PE-1210FT103KTT	10.000 @ 2.52 MHz	$\pm 10\%$	$\pm 5\%$	30 @ 2.52 MHz	30	2.10	150
PE-1210FT123KTT	12.000 @ 2.52 MHz	$\pm 10\%$	$\pm 5\%$	30 @ 2.52 MHz	20	2.50	140

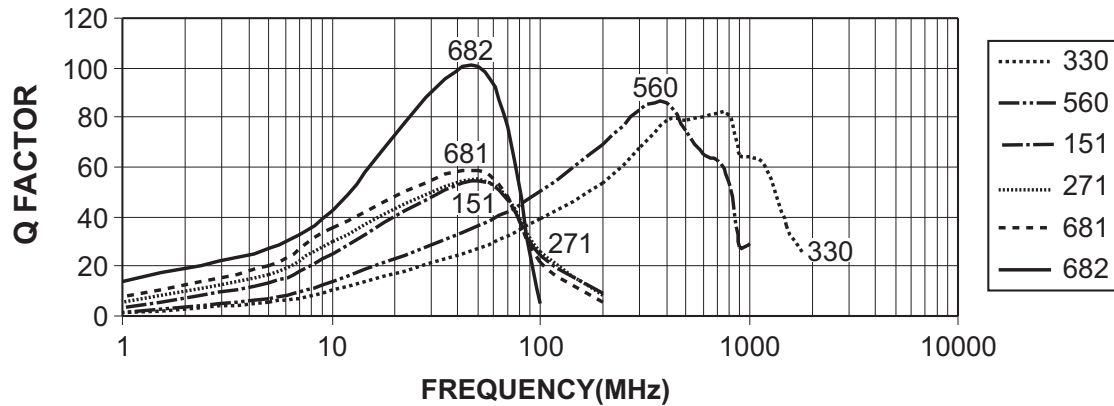
Notes:

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 15°C maximum temperature rise.
6. Sample Kit Part Number: **PE-1210FT KIT-T**.
7. Component Weight: 0.045 grams typical.
8. These components are 0.0944" in height.

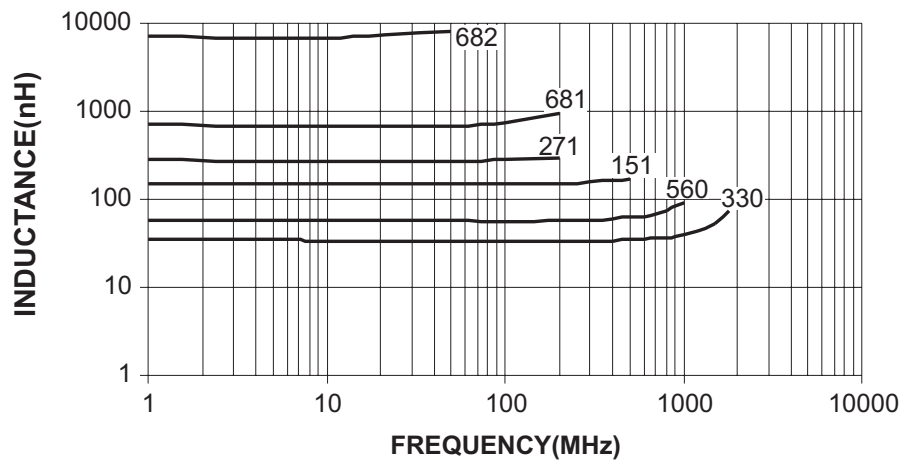
WIRE-WOUND RF CHIP INDUCTORS - 1210FT SERIES



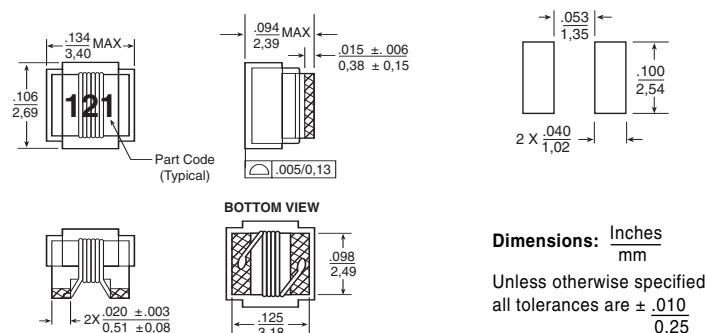
Typical Q vs Frequency



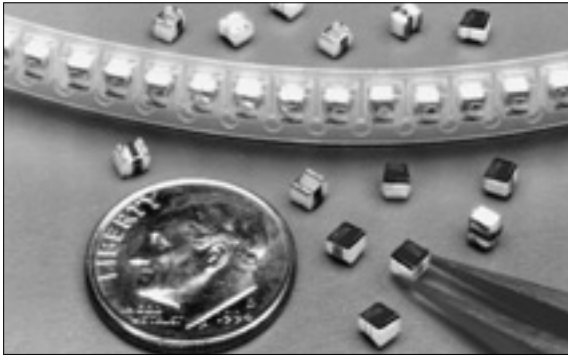
Typical Inductance vs Frequency



Mechanical



WIRE-WOUND RF CHIP INDUCTORS - 1206CD SERIES



-  Wirewound ceramic core construction
-  High Inductance value and high self resonant frequency
-  Tin/lead terminations
-  Industry standard 1206 (3216) SMT land pattern
-  Refer to page 3 for Competition Cross Reference

Electrical Specifications @ 25°C

Part Number	Inductance ¹ (nH)	Standard Tolerance	Optional Tolerances	Q ² (MIN)	SRF Min ³ (MHz MIN)	R _{DC} ⁴ (Ω MAX)	I _{DC} ⁵ (mA MAX)
PE-1206CD030KTT	3.3 @ 100 MHz	± 10%	± 20%, ± 5%	30 @ 300 MHz	6200	0.05	1000
PE-1206CD060KTT	6.8 @ 100 MHz	± 10%	± 20%, ± 5%	30 @ 300 MHz	5500	0.07	1000
PE-1206CD100XTT	10 @ 100 MHz	± 10%	± 20%, ± 5%	40 @ 300 MHz	4000	0.08	1000
PE-1206CD120XTT	12 @ 100 MHz	± 10%	± 20%, ± 5%	40 @ 300 MHz	3200	0.08	1000
PE-1206CD150XTT	15 @ 100 MHz	± 10%	± 20%, ± 5%	40 @ 300 MHz	3200	0.10	1000
PE-1206CD180XTT	18 @ 100 MHz	± 10%	± 20%, ± 5%	50 @ 300 MHz	2800	0.10	1000
PE-1206CD220XTT	22 @ 100 MHz	± 10%	± 20%, ± 5%	50 @ 300 MHz	2200	0.10	1000
PE-1206CD270XTT	27 @ 100 MHz	± 10%	± 20%, ± 5%	50 @ 300 MHz	1800	0.11	1000
PE-1206CD330XTT	33 @ 100 MHz	± 10%	± 20%, ± 5%	55 @ 300 MHz	1800	0.11	1000
PE-1206CD390XTT	39 @ 100 MHz	± 10%	± 20%, ± 5%	55 @ 300 MHz	1800	0.12	1000
PE-1206CD470XTT	47 @ 100 MHz	± 10%	± 20%, ± 5%	55 @ 300 MHz	1500	0.13	1000
PE-1206CD560XTT	56 @ 100 MHz	± 10%	± 20%, ± 5%	55 @ 300 MHz	1450	0.14	1000
PE-1206CD680XTT	68 @ 100 MHz	± 10%	± 20%, ± 5%	55 @ 300 MHz	1200	0.26	900
PE-1206CD820XTT	82 @ 100 MHz	± 10%	± 20%, ± 5%	55 @ 300 MHz	1200	0.21	900
PE-1206CD101XTT	100 @ 100 MHz	± 10%	± 20%, ± 5%	55 @ 300 MHz	1100	0.26	850
PE-1206CD121XTT	120 @ 100 MHz	± 10%	± 20%, ± 5%	60 @ 300 MHz	1100	0.26	800
PE-1206CD151XTT	150 @ 100 MHz	± 10%	± 20%, ± 5%	60 @ 300 MHz	950	0.31	750
PE-1206CD181XTT	180 @ 50 MHz	± 10%	± 20%, ± 5%	60 @ 300 MHz	900	0.43	700
PE-1206CD221XTT	220 @ 50 MHz	± 10%	± 20%, ± 5%	60 @ 300 MHz	760	0.50	670
PE-1206CD271XTT	270 @ 50 MHz	± 10%	± 20%, ± 5%	55 @ 300 MHz	730	0.56	630
PE-1206CD331XTT	330 @ 50 MHz	± 10%	± 20%, ± 5%	45 @ 150 MHz	650	0.62	590
PE-1206CD391XTT	390 @ 50 MHz	± 10%	± 20%, ± 5%	45 @ 150 MHz	600	0.75	530
PE-1206CD471XTT	470 @ 50 MHz	± 10%	± 20%, ± 5%	45 @ 150 MHz	550	1.30	490
PE-1206CD561XTT	560 @ 35 MHz	± 10%	± 20%, ± 5%	45 @ 150 MHz	470	1.34	460
PE-1206CD681XTT	680 @ 35 MHz	± 10%	± 20%, ± 5%	45 @ 150 MHz	450	1.58	430
PE-1206CD821XTT	820 @ 35 MHz	± 10%	± 20%, ± 5%	45 @ 150 MHz	420	1.82	400
PE-1206CD102XTT	1000 @ 35 MHz	± 10%	± 20%, ± 5%	45 @ 150 MHz	400	2.80	320
PE-1206CD122XTT	1200 @ 35 MHz	± 10%	± 20%, ± 5%	45 @ 150 MHz	380	3.20	300

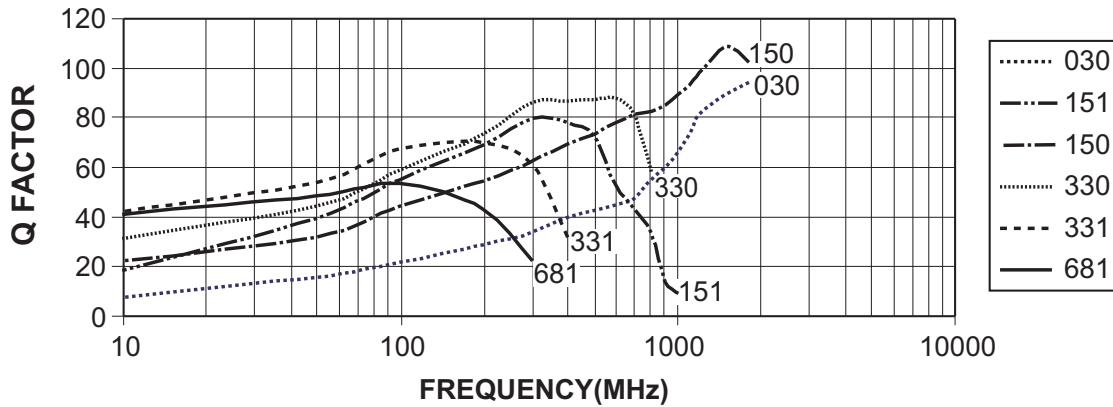
Notes:

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 15°C 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.

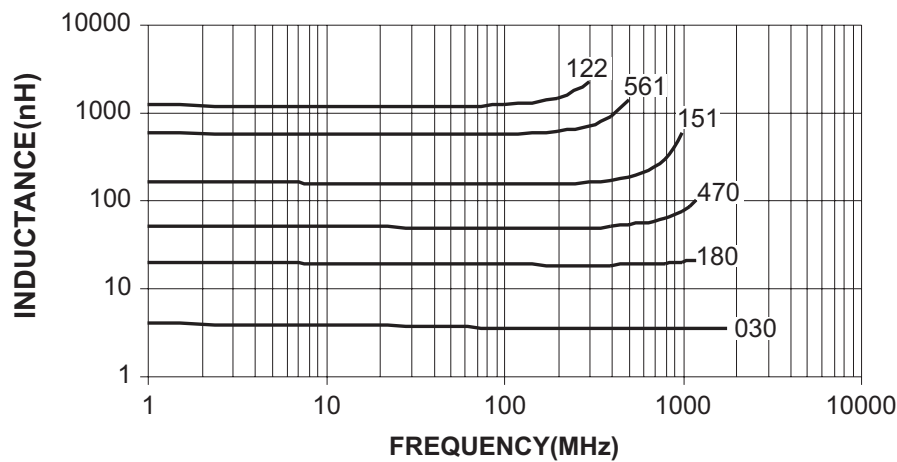
WIRE-WOUND RF CHIP INDUCTORS - 1206CD SERIES



Typical Q vs Frequency



Typical Inductance vs Frequency



Mechanical

