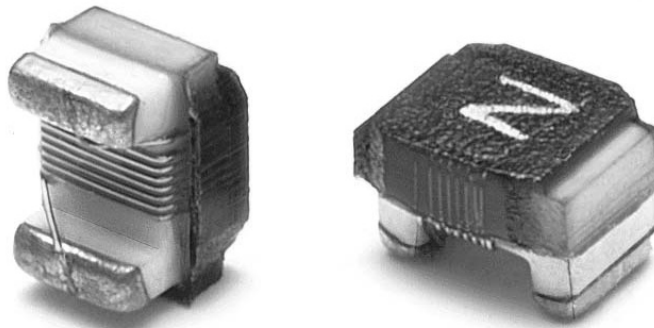




RF Chip Inductors

Wire-Wound - 0402, 0603, 0805, 1008, 1206



Pulse Electronics - leading supplier of magnetics for consumer applications

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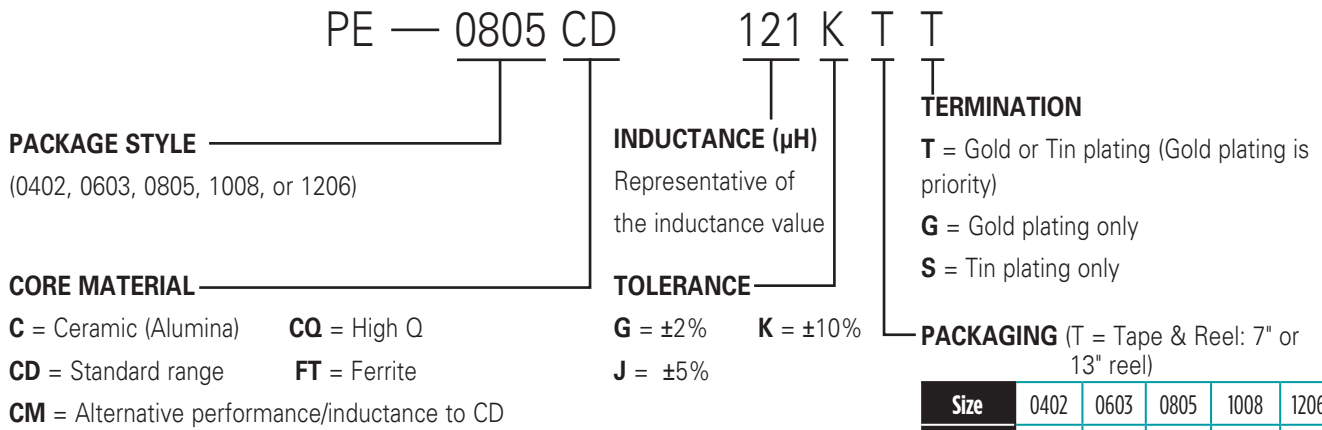


The 0402 to 1206 series range of Miniature Chip Inductors contains the very latest in wire-wound technology and Ceramic or Ferrite Core, thus providing the ultimate in performance demanded by today's Wireless products. The Inductors provide high Q and SRFs in an industry standard size and footprint. Pulse chip inductors manufactured after February 2005 are in compliance with RoHS requirements.

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WIRE-WOUND RF CHIP INDUCTORS

PART NUMBER LEGEND



WIRE-WOUND RF CHIP INDUCTORS

SELECTION GUIDES



CD Series: Standard 100% compatible with other market leaders.

CM Series: Offers improved electrical performance or alternative inductance values to Pulse CD series.

CQ Series: Offers high Q and high Idc series.

FT Series: Ferrite core offers higher inductance values.

Competition Cross Reference

		Pulse Wire-Wound Inductors						
Type	Competition	0402CD	0603CD	0805CD	0805FT	1008CQ	1008CD	1206CD
	Coilcraft	0402CS	0603CS	0805CS/ HS/HT		1008HQ	1008CS/ HT/CT	1206CS
	Murata			LQW1608A			LQN21A	
	Taiyo Yuden			LB2012T			LEM_2520T	
	TDK				NL2016		NLH2520	

WIRE-WOUND RF CHIP INDUCTORS

PERFORMANCE TESTING

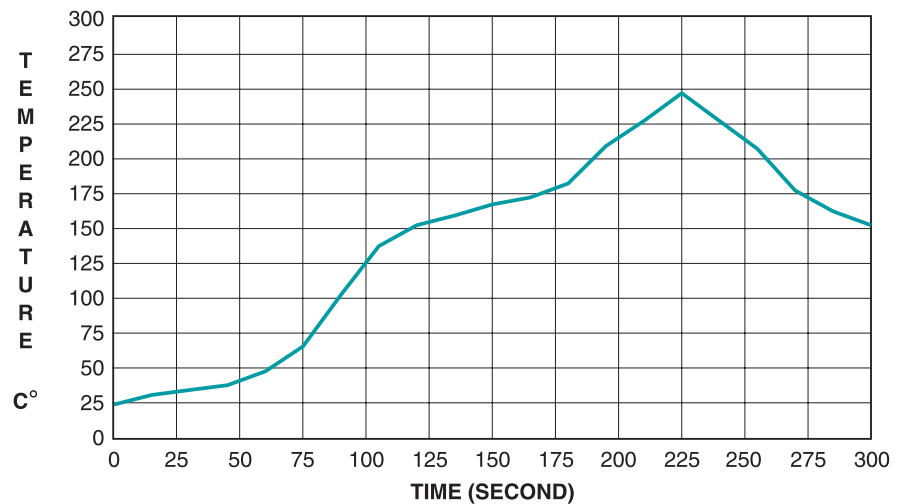
Electrical Testing

<p>Storage and Operating Temperature Range:</p> <p>-40° to +125°C</p>	<p>Inductors are subjected to the extremes for 48 hours.</p> <p>Then tested at 25 °C</p>	<p>There shall be no deformation or change in appearance</p> <p>Inductance shall not change by more than ±5%</p> <p>Q values shall not change by more than ±10%</p>
<p>Thermal:</p> <p>-40° to +85°C</p>	<p>Inductors are subjected to 30 cycles for 30 minutes at each extreme.</p> <p>Then tested at 25 °C</p>	
<p>Moisture Resistance</p>	<p>Inductors are subjected to 10 cycles of 24 hours at 70°C with 90 to 95% Relative Humidity</p> <p>Then tested at 25 °C</p>	
<p>Operating Life</p>	<p>Inductors are subjected to 1000 hours at 85C with 85% Relative Humidity with the rated current applied</p>	

Mechanical Testing

<p>Temperature Range:</p>	<p>Inductors are subjected to the following: Use a solder pot at 260C, with RMA Flux. Each termination is immersed in 63Sn/37Pb molten solder for 4 to 6 seconds.</p>	<p>There shall be no deformation or change in appearance</p> <p>Inductance shall not change by more than ±5%</p> <p>Q values shall not change by more than ±10%</p>
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Recommended Solder Heat Resistance Profile

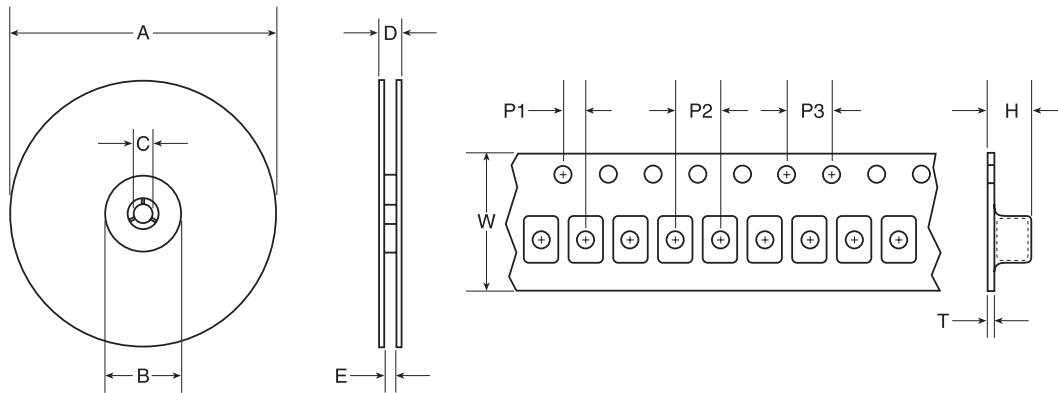


WIRE-WOUND RF CHIP INDUCTORS

PERFORMANCE SPECIFICATIONS

Electrical Specifications		
Vibration (Random)	Samplers are subjected to random vibrations as per NAVMAT P9492	There shall be no deformation or change in appearance Inductance shall not change by more than $\pm 5\%$ Q values shall not change by more than $\pm 10\%$
Mechanical Shock	Inductors are subjected to one half sine wave pulse (8700 g's for 0.3ms) in each directional axis for a total of 18 shocks	
Moisture Resistance	Reflow Inductors on to test pads using 63 Sn/37 Pb solder paste (IR Reflow profile = 200°C for 30 seconds or peak 235°C for 20 seconds)	The inductors shall withstand a minimum force of 1000 g's in any direction using a dynamometer force gauge.

Tape and Reel Specifications



Electrical Specifications @ 25°C - Operating Temperature -40°C to +125°C

Series	Parts per Reel	Reels Dimensions (mm)					Tape Dimensions (mm)					
		A	B	C	D	E	W	P1	P2	P3	H	T
0402CD	3000	178	50	13	14.4	8.4	8	2	4	4	1.1	0.3
0603CD	2000	178	50	13	14.4	8.4	8	2	4	4	1.7	0.3
0805CD	2000	178	50	13	14.4	8.4	8	2	4	4	2.1	0.3
0805CM	2000	178	50	13	14.4	8.4	8	2	4	4	2.1	0.3
0805FT	2000	178	50	13	14.4	8.4	8	2	4	4	2.1	0.3
1008CD	1600	178	50	13	14.4	8.4	8	2	4	4	2.6	0.3
1008CM	1600	178	50	13	14.4	8.4	8	2	4	4	2.6	0.3
1008CQ	1600	178	50	13	14.4	8.4	8	2	4	4	2.6	0.3
1206CD	3000	330	101	13	18.4	12.4	12	2	4	4	2.0	0.4

Notes: P1, P2 and P3 are same for all chip inductor series. Keeping the same dimensions for guide hole and pocket pitch (P1), pocket pitch (P2), guide hold pitch (P3) and tape width (8mm) for all series, enables the packaging machine to maintain the same settings while changing models. The only difference between the series are the parts per reel which contributes to a different length of tapes/reel per model.

WIRE-WOUND RF CHIP INDUCTORS - 0402CD SERIES



- Wirewound ceramic core construction
- High Q values
- High self resonant frequency
- Industry standard 0402 (1005) surface mount land pattern

Electrical Specifications @ 25°C

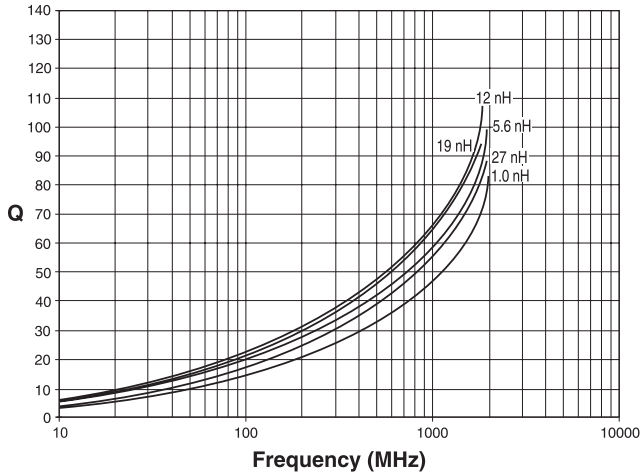
Part Number	Inductance 1 (nH)	Standard Tolerance	Optional Tolerance	Q 2 (MIN)	SRF 3 (MHz MIN)	Rdc (MHz MIN)	I _{dc} (mA MAX)
PE-0402CD3N6KTT	3.6 @ 250MHz	±10% (K)	±5% (J)	20 @ 250MHz	6000	0.066	840
PE-0402CD3N9KTT	3.9 @ 250MHz	±10% (K)	±5% (J)	20 @ 250MHz	5800	0.066	840
PE-0402CD5N6KTT	5.6 @ 250MHz	±10% (K)	±5% (J)	23 @ 250MHz	5800	0.083	760
PE-0402CD6N2KTT	6.2 @ 250MHz	±10% (K)	±5% (J)	23 @ 250MHz	5800	0.083	760
PE-0402CD6N8KTT	6.8 @ 250MHz	±10% (K)	±5% (J)	20 @ 250MHz	5800	0.083	680
PE-0402CD7N5KTT	7.5 @ 250MHz	±10% (K)	±5% (J)	25 @ 250MHz	5800	0.104	680
PE-0402CD8N2KTT	8.2 @ 250MHz	±10% (K)	±5% (J)	25 @ 250MHz	4400	0.104	680
PE-0402CD9N0KTT	9.0 @ 250MHz	±10% (K)	±5% (J)	25 @ 250MHz	4160	0.104	680
PE-0402CD100KTT	10 @ 250MHz	±10% (K)	±5% (J), ±2% (G)	21 @ 250MHz	3900	0.195	480
PE-0402CD150KTT	15 @ 250MHz	±10% (K)	±5% (J), ±2% (G)	26 @ 250MHz	3280	0.172	560
PE-0402CD680KTT	68 @ 250MHz	±10% (K)	±5% (J)	18 @ 250MHz	1840	0.970	100
PE-0402CD820KTT	82 @ 250MHz	±10% (K)	±5% (J)	16 @ 250MHz	1680	1.250	100

Notes:

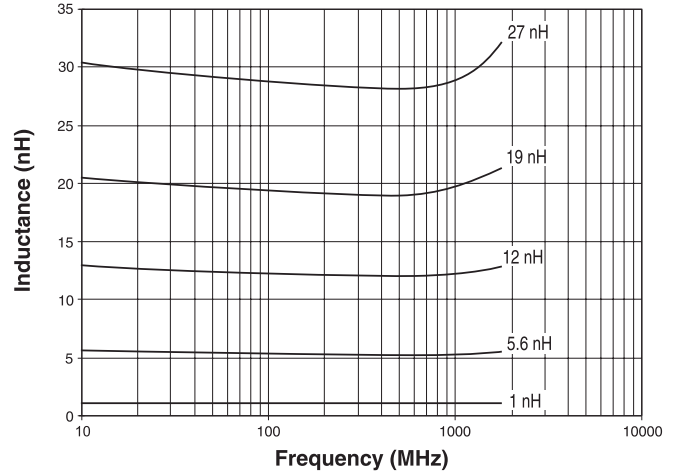
1. Inductance measured using a HP4286A RF Impedance Analyzer. (Please note that inductance information is not stamped on part, because of the extremely small size).
2. Q measured using a HP4291A RF Impedance Analyzer with a HP16193A Test Fixture.
3. SRF measured using a HP8753C Network Analyzer.
4. R_{dc} measured using a Valhalla Scientific model 4100 ATC Digital Ohmmeter.
5. Based on a 15°C maximum temperature rise.
6. Component Weight: 0.002 grams typical.

WIRE-WOUND RF CHIP INDUCTORS - 0402CD SERIES

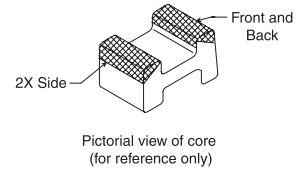
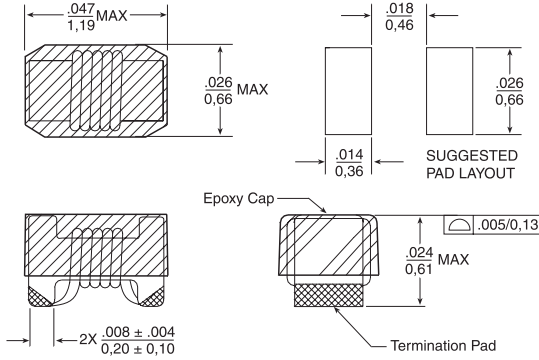
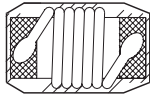
Typical Q vs Frequency



Typical Inductance vs Frequency



Mechanical



Weight0.002grams
Tape & Reel3000/reel

Dimensions: $\frac{\text{Inches}}{\text{mm}}$

Unless otherwise specified,
all tolerances are $\pm \frac{.010}{0.25}$

WIRE-WOUND RF CHIP INDUCTORS - 0603CD SERIES



- Wirewound ceramic core construction
- High Q values
- High self resonant frequency
- Industry standard 0603 (1608) 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)	Rdc ⁴ (Ω MAX)	I _{dc} ⁵ (mA MAX)
PE-0603CD1N6KTT	1.6 @ 250MHz	±10% (K)	±5% (J), ±2% (G)	24 @ 250MHz	>6000	0.030	700
PE-0603CD010KTT	1.7 @ 250MHz	±10% (K)	±5% (J), ±2% (G)	16 @ 250MHz	>6000	0.050	700
PE-0603CD1N8KTT	1.8 @ 250MHz	±10% (K)	±5% (J), ±2% (G)	16 @ 250MHz	>6000	0.045	700
PE-0603CD2N2KTT	2.2 @ 250MHz	±10% (K)	±5% (J), ±2% (G)	18 @ 250MHz	>6000	0.110	700
PE-0603CD3N3KTT	3.3 @ 250MHz	±10% (K)	±5% (J), ±2% (G)	35 @ 250MHz	>6000	0.045	700
PE-0603CD3N6KTT	3.6 @ 250MHz	±10% (K)	±5% (J), ±2% (G)	20 @ 250MHz	>6000	0.070	700
PE-0603CD030KTT	3.9 @ 250MHz	±10% (K)	±5% (J), ±2% (G)	20 @ 250MHz	>6000	0.080	700
PE-0603CD4N3KTT	4.3 @ 250MHz	±10% (K)	±5% (J), ±2% (G)	20 @ 250MHz	>6000	0.102	700
PE-0603CD040KTT	4.55 @ 250MHz	±10% (K)	±5% (J), ±2% (G)	20 @ 250MHz	5800	0.106	700
PE-0603CD4N7KTT	4.7 @ 250MHz	±10% (K)	±5% (J), ±2% (G)	20 @ 250MHz	5800	0.116	700
PE-0603CD5N1KTT	5.1 @ 250MHz	±10% (K)	±5% (J), ±2% (G)	20 @ 250MHz	5700	0.108	700
PE-0603CD5N6KTT	5.6 @ 250MHz	±10% (K)	±5% (J), ±2% (G)	25 @ 250MHz	5500	0.108	700
PE-0603CD6N2KTT	6.2 @ 250MHz	±10% (K)	±5% (J), ±2% (G)	25 @ 250MHz	5800	0.110	700
PE-0603CD060KTT	6.68 @ 250MHz	±10% (K)	±5% (J), ±2% (G)	25 @ 250MHz	5800	0.110	700
PE-0603CD6N8KTT	6.8 @ 250MHz	±10% (K)	±5% (J), ±2% (G)	27 @ 250MHz	5800	0.110	700
PE-0603CD7N5KTT	7.5 @ 250MHz	±10% (K)	±5% (J), ±2% (G)	28 @ 250MHz	4800	0.115	700
PE-0603CD080KTT	8.2 @ 250MHz	±10% (K)	±5% (J), ±2% (G)	30 @ 250MHz	4600	0.120	700
PE-0603CD8N7KTT	8.7 @ 250MHz	±10% (K)	±5% (J), ±2% (G)	28 @ 250MHz	4600	0.109	700
PE-0603CD9N5KTT	9.5 @ 250MHz	±10% (K)	±5% (J), ±2% (G)	28 @ 250MHz	5400	0.135	700
PE-0603CD100KTT	10 @ 250MHz	±10% (K)	±5% (J), ±2% (G)	30 @ 250MHz	4800	0.130	700
PE-0603CD110KTT	11 @ 250MHz	±10% (K)	±5% (J), ±2% (G)	30 @ 250MHz	4000	0.086	700
PE-0603CD120KTT	12 @ 250MHz	±10% (K)	±5% (J), ±2% (G)	30 @ 250MHz	4000	0.130	700
PE-0603CD130KTT	13 @ 250MHz	±10% (K)	±5% (J), ±2% (G)	38 @ 250MHz	3600	0.106	700
PE-0603CD150KTT	15 @ 250MHz	±10% (K)	±5% (J), ±2% (G)	30 @ 250MHz	4000	0.170	700
PE-0603CD160KTT	16 @ 250MHz	±10% (K)	±5% (J), ±2% (G)	35 @ 250MHz	3300	0.170	700
PE-0603CD180KTT	18 @ 250MHz	±10% (K)	±5% (J), ±2% (G)	35 @ 180MHz	3100	0.170	700
PE-0603CD220KTT	22 @ 250MHz	±10% (K)	±5% (J), ±2% (G)	35 @ 250MHz	3000	0.190	700
PE-0603CD230KTT	23 @ 250MHz	±10% (K)	±5% (J), ±2% (G)	38 @ 250MHz	2850	0.190	700
PE-0603CD240KTT	24 @ 250MHz	±10% (K)	±5% (J), ±2% (G)	35 @ 250MHz	2650	0.200	600

(Continued on next page)

WIRE-WOUND RF CHIP INDUCTORS - 0603CD SERIES

Electrical Specifications @ 25°C (continued)

Part Number	Inductance ¹ (nH)	Standard Tolerance	Optional Tolerance	Q ² (MIN)	SRF ³ (MHz MIN)	Rdc ⁴ (Ω MAX)	I _{dc} ⁵ (mA MAX)
PE-0603CD270KTT	27 @ 250MHz	±10% (K)	±5% (J), ±2% (G)	35 @ 250MHz	2800	0.220	600
PE-0603CD300KTT	30 @ 250MHz	±10% (K)	±5% (J), ±2% (G)	37 @ 250MHz	2250	0.144	600
PE-0603CD330KTT	33 @ 250MHz	±10% (K)	±5% (J), ±2% (G)	35 @ 250MHz	2300	0.220	600
PE-0603CD360KTT	36 @ 250MHz	±10% (K)	±5% (J), ±2% (G)	37 @ 250MHz	2080	0.250	600
PE-0603CD390KTT	39 @ 250MHz	±10% (K)	±5% (J), ±2% (G)	35 @ 250MHz	2200	0.250	600
PE-0603CD430KTT	43 @ 250MHz	±10% (K)	±5% (J), ±2% (G)	35 @ 250MHz	2000	0.280	600
PE-0603CD470KTT	47 @ 200MHz	±10% (K)	±5% (J), ±2% (G)	35 @ 200MHz	2000	0.280	600
PE-0603CD510KTT	51 @ 200MHz	±10% (K)	±5% (J), ±2% (G)	35 @ 200MHz	1900	0.270	600
PE-0603CD560KTT	56 @ 200MHz	±10% (K)	±5% (J), ±2% (G)	35 @ 200MHz	1900	0.310	600
PE-0603CD680KTT	68 @ 200MHz	±10% (K)	±5% (J), ±2% (G)	35 @ 200MHz	1700	0.340	600
PE-0603CD720KTT	72 @ 150MHz	±10% (K)	±5% (J), ±2% (G)	34 @ 150MHz	1700	0.490	400
PE-0603CD820KTT	82 @ 150MHz	±10% (K)	±5% (J), ±2% (G)	34 @ 150MHz	1700	0.540	400
PE-0603CD101KTT	98.50 @ 150MHz	±10% (K)	±5% (J), ±2% (G)	34 @ 150MHz	1400	0.580	400
PE-0603CDR10KTT	100 @ 150MHz	±10% (K)	±5% (J), ±2% (G)	34 @ 150MHz	1400	0.580	400
PE-0603CD111KTT	110 @ 150MHz	±10% (K)	±5% (J), ±2% (G)	33 @ 150MHz	1300	0.610	300
PE-0603CDR12KTT	120 @ 150MHz	±10% (K)	±5% (J), ±2% (G)	32 @ 150MHz	1300	0.650	300
PE-0603CD121KTT	122 @ 150MHz	±10% (K)	±5% (J), ±2% (G)	33 @ 150MHz	1300	0.650	300
PE-0603CD151KTT	150 @ 150MHz	±10% (K)	±5% (J), ±2% (G)	28 @ 150MHz	990	0.920	280
PE-0603CD181KTT	180 @ 100MHz	±10% (K)	±5% (J), ±2% (G)	25 @ 100MHz	990	1.250	240
PE-0603CD211KTT	210 @ 100MHz	±10% (K)	±5% (J), ±2% (G)	27 @ 100MHz	895	2.060	220
PE-0603CD221KTT	220 @ 100MHz	±10% (K)	±5% (J), ±2% (G)	25 @ 100MHz	900	1.900	200
PE-0603CD251KTT	250 @ 100MHz	±10% (K)	±5% (J), ±2% (G)	25 @ 100MHz	822	3.550	180
PE-0603CD271KTT	270 @ 100MHz	±10% (K)	±5% (J), ±2% (G)	24 @ 100MHz	860	2.300	170
PE-0603CD331KTT	330 @ 100MHz	±10% (K)	±5% (J), ±2% (G)	22 @ 100MHz	500	2.300	150
PE-0603CD391KTT	390 @ 100MHz	±10% (K)	±5% (J), ±2% (G)	20 @ 100MHz	350	2.900	130

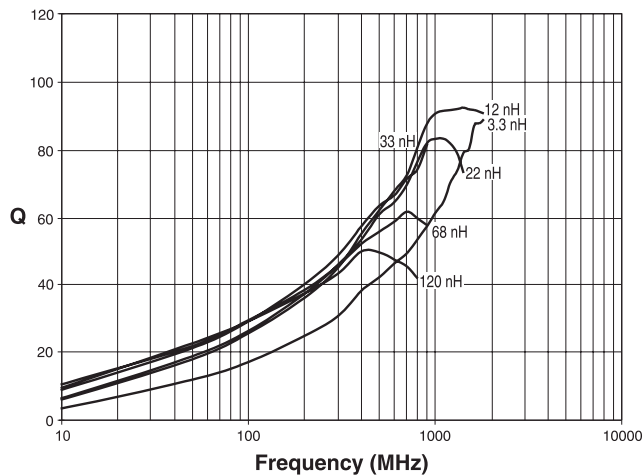
Notes:

1. Inductance measured using a HP4286A RF Impedance Analyzer. (Please note that inductance information is not stamped on part, because of the extremely small size).
2. Q measured using a HP4291A RF Impedance Analyzer with a HP16193A Test Fixture.
3. SRF measured using a HP8753C Network Analyzer.
4. Rdc measured using a Valhalla Scientific model 4100 ATC Digital Ohmmeter.
5. Based on a 15°C maximum temperature rise.
6. 5-sides o top side epoxy cap.

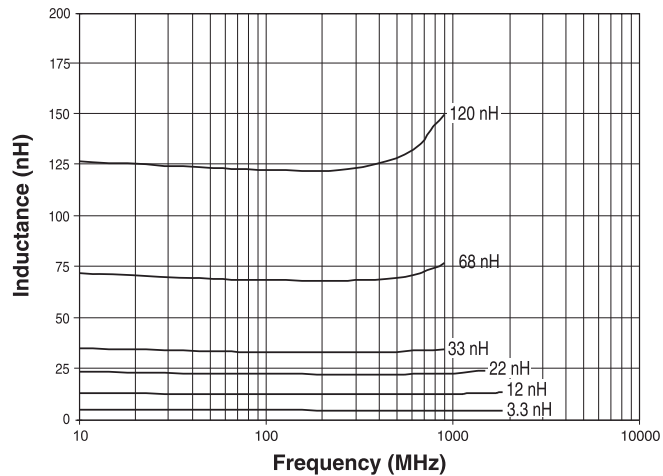
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WIRE-WOUND RF CHIP INDUCTORS - 0603CD Series

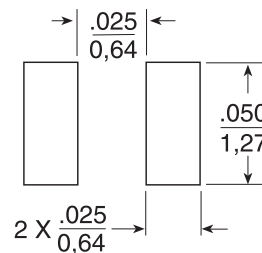
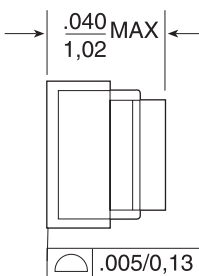
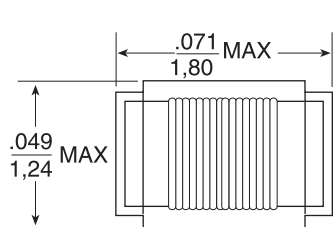
Typical Q vs Frequency



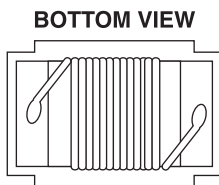
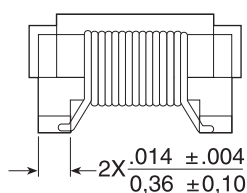
Typical Inductance vs Frequency



Mechanical



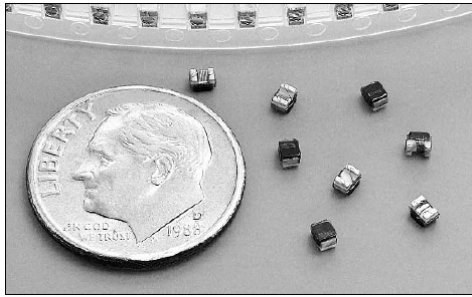
SUGGESTED PAD LAYOUT



Dimensions: $\frac{\text{Inches}}{\text{mm}}$

Unless otherwise specified,
all tolerances are $\pm \frac{.010}{0,25}$

WIRE-WOUND RF CHIP INDUCTORS - 0805CD SERIES



- Wirewound ceramic core construction
- High Q values
- High self resonant frequency
- Industry standard 0805 (2012) 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)	Rdc ⁴ (Ω MAX)	I _{dc} ⁵ (mA MAX)
PE-0805CD2N8KTT	2.8 @ 250MHz	±10% (K)	±5% (J)	80 @ 1500MHz	>6000	0.06	600
PE-0805CD3N0KTT	3.0 @ 250MHz	±10% (K)	±5% (J)	65 @ 1500MHz	>6000	0.06	600
PE-0805CD030KTT	3.32 @ 250MHz	±10% (K)	±5% (J), ±2% (G)	40 @ 1500MHz	6000	0.08	600
PE-0805CD050KTT	5.6 @ 250MHz	±10% (K)	±5% (J), ±2% (G)	50 @ 1500MHz	5500	0.10	600
PE-0805CD060KTT	6.5 @ 250MHz	±10% (K)	±5% (J), ±2% (G)	50 @ 1000MHz	5000	0.11	600
PE-0805CD7N5KTT	7.5 @ 250MHz	±10% (K)	±5% (J), ±2% (G)	50 @ 1000MHz	4500	0.14	600
PE-0805CD080KTT	7.9 @ 250MHz	±10% (K)	±5% (J), ±2% (G)	50 @ 1000MHz	4700	0.12	600
PE-0805CD100KTT	10.2 @ 250MHz	±10% (K)	±5% (J), ±2% (G)	50 @ 500MHz	4100	0.14	600
PE-0805CD120KTT	11.9 @ 250MHz	±10% (K)	±5% (J), ±2% (G)	50 @ 500MHz	4000	0.15	600
PE-0805CD150KTT	14.9 @ 250MHz	±10% (K)	±5% (J), ±2% (G)	50 @ 500MHz	3400	0.17	600
PE-0805CD180KTT	17.95 @ 250MHz	±10% (K)	±5% (J), ±2% (G)	50 @ 500MHz	3300	0.20	600
PE-0805CD220KTT	21.7 @ 250MHz	±10% (K)	±5% (J), ±2% (G)	55 @ 500MHz	2600	0.22	500
PE-0805CD240KTT	24 @ 250MHz	±10% (K)	±5% (J), ±2% (G)	50 @ 500MHz	2000	0.22	500
PE-0805CD270KTT	26.5 @ 250MHz	±10% (K)	±5% (J), ±2% (G)	55 @ 500MHz	2500	0.25	500
PE-0805CD330KTT	32.75 @ 250MHz	±10% (K)	±5% (J), ±2% (G)	60 @ 500MHz	2050	0.27	500
PE-0805CD360KTT	36 @ 250MHz	±10% (K)	±5% (J), ±2% (G)	55 @ 500MHz	1700	0.27	500
PE-0805CD390KTT	38.5 @ 250MHz	±10% (K)	±5% (J), ±2% (G)	60 @ 500MHz	2000	0.29	500
PE-0805CD430KTT	43 @ 200MHz	±10% (K)	±5% (J), ±2% (G)	60 @ 500MHz	1650	0.34	500
PE-0805CD470KTT	46.6 @ 200MHz	±10% (K)	±5% (J), ±2% (G)	60 @ 500MHz	1650	0.31	500
PE-0805CD560KTT	55.5 @ 200MHz	±10% (K)	±5% (J), ±2% (G)	60 @ 500MHz	1550	0.34	500
PE-0805CD680KTT	67.8 @ 200MHz	±10% (K)	±5% (J), ±2% (G)	60 @ 500MHz	1450	0.38	500
PE-0805CD820KTT	82.7 @ 150MHz	±10% (K)	±5% (J), ±2% (G)	60 @ 500MHz	1300	0.42	400
PE-0805CD910KTT	91 @ 150MHz	±10% (K)	±5% (J), ±2% (G)	65 @ 500MHz	1200	0.44	400
PE-0805CD101KTT	98.7 @ 150MHz	±10% (K)	±5% (J), ±2% (G)	60 @ 500MHz	1200	0.46	400
PE-0805CD111KTT	110 @ 150MHz	±10% (K)	±5% (J), ±2% (G)	50 @ 250MHz	1000	0.48	400

(Continued on next page)

WIRE-WOUND RF CHIP INDUCTORS - 0805CD Series

Electrical Specifications @ 25°C (continued)

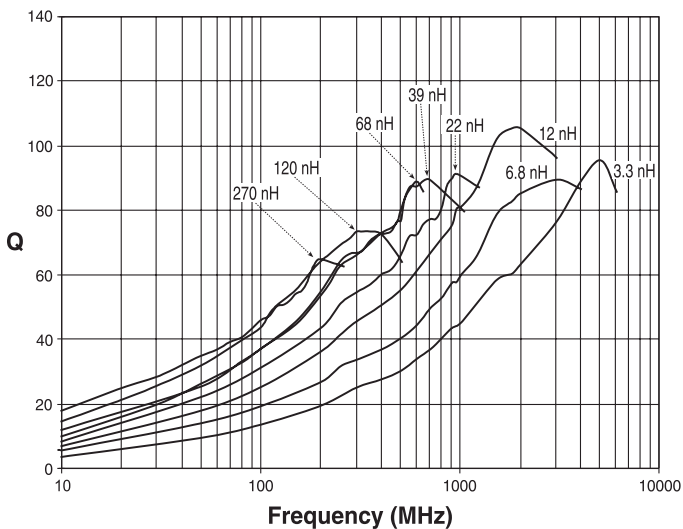
Part Number	Inductance ¹ (nH)	Standard Tolerance	Optional Tolerance	Q ² (MIN)	SRF ³ (MHz MIN)	Roc ⁴ (Ω MAX)	I _{dc} ⁵ (mA MAX)
PE-0805CD121KTT	119.7 @ 150MHz	±10% (K)	±5% (J), ±2% (G)	50 @ 250MHz	1100	0.51	400
PE-0805CD151KTT	149.4 @ 100MHz	±10% (K)	±5% (J), ±2% (G)	50 @ 250MHz	920	0.56	400
PE-0805CD181KTT	179.6 @ 100MHz	±10% (K)	±5% (J), ±2% (G)	50 @ 250MHz	870	0.64	400
PE-0805CD221KTT	217 @ 100MHz	±10% (K)	±5% (J), ±2% (G)	45 @ 250MHz	850	0.70	400
PE-0805CD241KTT	240 @ 100MHz	±10% (K)	±5% (J), ±2% (G)	44 @ 250MHz	690	1.00	350
PE-0805CD271KTT	269 @ 100MHz	±10% (K)	±5% (J), ±2% (G)	45 @ 250MHz	650	1.00	350
PE-0805CD331KTT	331 @ 100MHz	±10% (K)	±5% (J), ±2% (G)	45 @ 250MHz	600	1.40	310
PE-0805CD391KTT	386 @ 50MHz	±10% (K)	±5% (J), ±2% (G)	35 @ 250MHz	560	1.50	290
PE-0805CD471KTT	477 @ 25MHz	±10% (K)	±5% (J), ±2% (G)	33 @ 100MHz	375	1.76	250
PE-0805CD561KTT	545 @ 250MHz	±10% (K)	±5% (J), ±2% (G)	23 @ 50MHz	340	1.90	230
PE-0805CD681KTT	674 @ 25MHz	±10% (K)	±5% (J), ±2% (G)	23 @ 50MHz	188	2.20	190
PE-0805CD821KTT	783 @ 25MHz	±10% (K)	±5% (J), ±2% (G)	23 @ 50MHz	215	2.35	180
PE-0805CD102KTT	1000 @ 25MHz	±10% (K)	±5% (J), ±2% (G)	20 @ 50MHz	200	3.60	150
PE-0805CD122KTT	1200 @ 25MHz	±10% (K)	±5% (J), ±2% (G)	20 @ 50MHz	200	4.10	120
PE-0805CD152KTT	1500 @ 25MHz	±10% (K)	±5% (J), ±2% (G)	20 @ 50MHz	200	5.00	100

*** For other inductance values in 0805 size, please refer to 0805CM (page 14) an 0805FT (page 16). ***

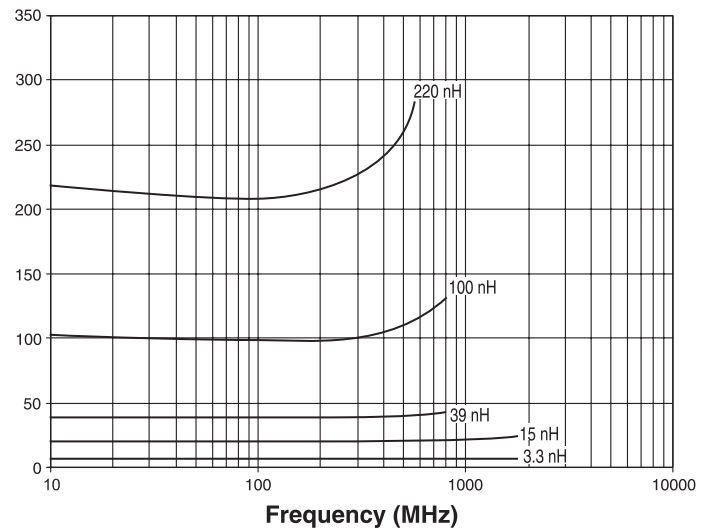
Notes:

- Inductance measured using a HP4286A RF Impedance Analyzer. (Please note that inductance information is not stamped on part, because of the extremely small size).
- Q measured using a HP4291A RF Impedance Analyzer with a HP16193A Test Fixture.
- SRF measured using a HP8753C Network Analyzer.
- Roc measured using a Valhalla Scientific model 4100 ATC Digital Ohmeter.
- Based on a 15°C maximum temperature rise.

Typical Q vs Frequency

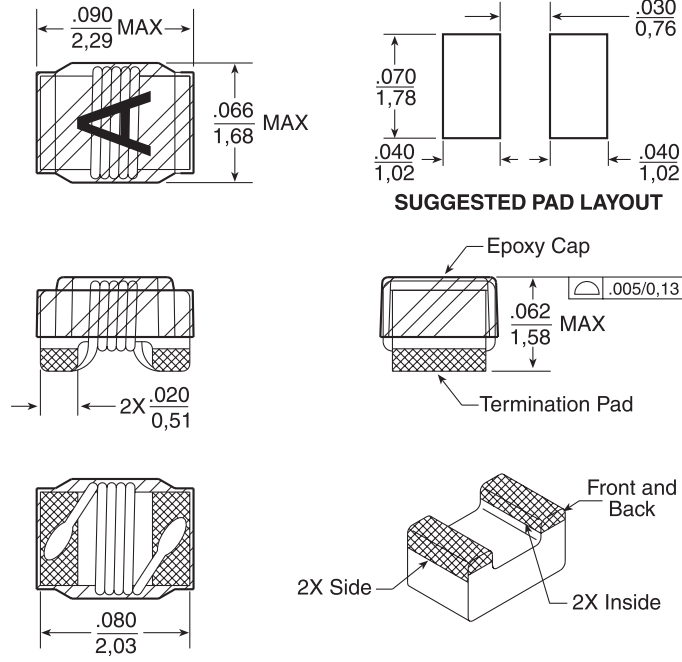


Typical Inductance vs Frequency



WIRE-WOUND RF CHIP INDUCTORS - 0805CD SERIES

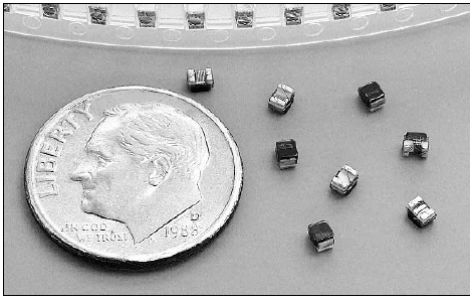
Mechanical







Weight0.012grams
Tape & Reel2000/reel
Dimensions: $\frac{\text{Inches}}{\text{mm}}$

Unless otherwise specified,
 all tolerances are $\pm \frac{.010}{0,25}$

WIRE-WOUND RF CHIP INDUCTORS - 0805CM SERIES



-  Wirewound ceramic core construction
 -  High Q values
 -  High self resonant frequency
 -  Industry standard 0805 (2012) 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)	Rdc ⁴ (Ω MAX)	I _{dc} ⁵ (mA MAX)
PE-0805CM030KTT	3.3 @ 250MHz	±10% (K)	±5% (J)	37 @ 1500MHz	5000	0.08	600
PE-0805CM060KTT	6.8 @ 250MHz	±10% (K)	±5% (J)	46 @ 1000MHz	5000	0.15	600
PE-0805CM080KTT	8.2 @ 250MHz	±10% (K)	±5% (J), ±2% (G)	47 @ 1000MHz	3900	0.13	600
PE-0805CM100KTT	10 @ 250MHz	±10% (K)	±5% (J), ±2% (G)	60 @ 500MHz	3900	0.10	600
PE-0805CM120KTT	12 @ 250MHz	±10% (K)	±5% (J), ±2% (G)	50 @ 500MHz	2900	0.13	600
PE-0805CM150KTT	15 @ 250MHz	±10% (K)	±5% (J), ±2% (G)	50 @ 500MHz	2700	0.15	600
PE-0805CM180KTT	18 @ 250MHz	±10% (K)	±5% (J), ±2% (G)	50 @ 500MHz	2600	0.13	600
PE-0805CM220KTT	22 @ 250MHz	±10% (K)	±5% (J), ±2% (G)	55 @ 500MHz	2200	0.13	500
PE-0805CM270KTT	27 @ 250MHz	±10% (K)	±5% (J), ±2% (G)	55 @ 500MHz	2000	0.23	500
PE-0805CM330KTT	33 @ 250MHz	±10% (K)	±5% (J), ±2% (G)	58 @ 500MHz	1800	0.18	500
PE-0805CM390KTT	39 @ 250MHz	±10% (K)	±5% (J), ±2% (G)	60 @ 500MHz	1600	0.23	500
PE-0805CM470KTT	47 @ 200MHz	±10% (K)	±5% (J), ±2% (G)	60 @ 500MHz	1650	0.25	500
PE-0805CD560KTT	56 @ 200MHz	±10% (K)	±5% (J), ±2% (G)	60 @ 500MHz	1300	0.16	500
PE-0805CM680KTT	68 @ 200MHz	±10% (K)	±5% (J), ±2% (G)	60 @ 500MHz	1350	0.18	500
PE-0805CM820KTT	82 @ 150MHz	±10% (K)	±5% (J), ±2% (G)	60 @ 500MHz	1300	0.36	400
PE-0805CM101KTT	100 @ 150MHz	±10% (K)	±5% (J), ±2% (G)	55 @ 500MHz	1100	0.36	400
PE-0805CM121KTT	120 @ 150MHz	±10% (K)	±5% (J), ±2% (G)	45 @ 250MHz	1100	0.56	350
PE-0805CM151KTT	150 @ 100MHz	±10% (K)	±5% (J), ±2% (G)	50 @ 250MHz	900	0.56	350
PE-0805CM181KTT	180 @ 100MHz	±10% (K)	±5% (J), ±2% (G)	50 @ 250MHz	875	0.69	300
PE-0805CM221KTT	220 @ 100MHz	±10% (K)	±5% (J), ±2% (G)	45 @ 250MHz	800	0.85	300
PE-0805CM271KTT	270 @ 100MHz	±10% (K)	±5% (J), ±2% (G)	40 @ 100MHz	800	0.90	300
PE-0805CM331KTT	330 @ 100MHz	±10% (K)	±5% (J), ±2% (G)	40 @ 100MHz	775	1.28	300
PE-0805CM391KTT	390 @ 100MHz	±10% (K)	±5% (J), ±2% (G)	40 @ 100MHz	725	1.70	300
PE-0805CM471KTT	470 @ 100MHz	±10% (K)	±5% (J), ±2% (G)	38 @ 100MHz	600	3.25	240
PE-0805CM561KTT	560 @ 100MHz	±10% (K)	±5% (J), ±2% (G)	40 @ 100MHz	600	3.10	240
PE-0805CM681KTT	680 @ 50MHz	±10% (K)	±5% (J), ±2% (G)	32 @ 50MHz	550	3.50	240
PE-0805CM821KTT	820 @ 50MHz	±10% (K)	±5% (J), ±2% (G)	23 @ 50MHz	215	2.35	200

(Continued on next page)

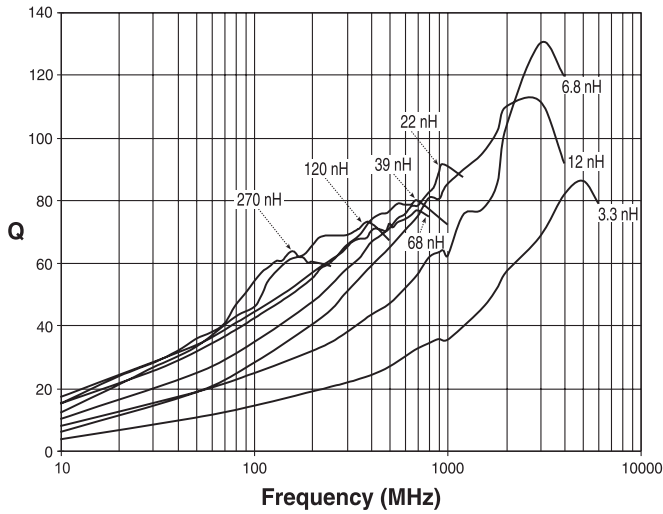
WIRE-WOUND RF CHIP INDUCTORS - 0805CM SERIES

Notes:

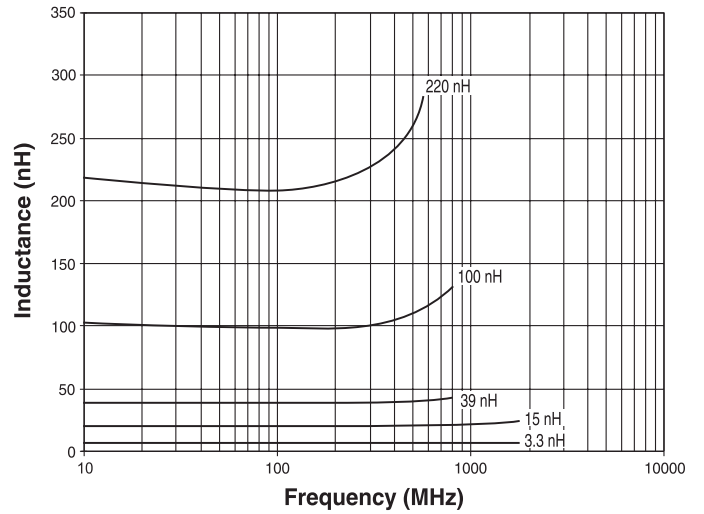
1. Inductance measured using a HP4286A RF Impedance Analyzer. (Please note that inductance information is not stamped on part, because of the extremely small size).
2. Q measured using a HP4291A RF Impedance Analyzer with a HP16193A Test Fixture.
3. SRF measured using a HP8753C Network Analyzer.

4. Rdc measured using a Valhalla Scientific model 4100 ATC Digital Ohmeter.
5. Based on a 15 °C maximum temperature rise.

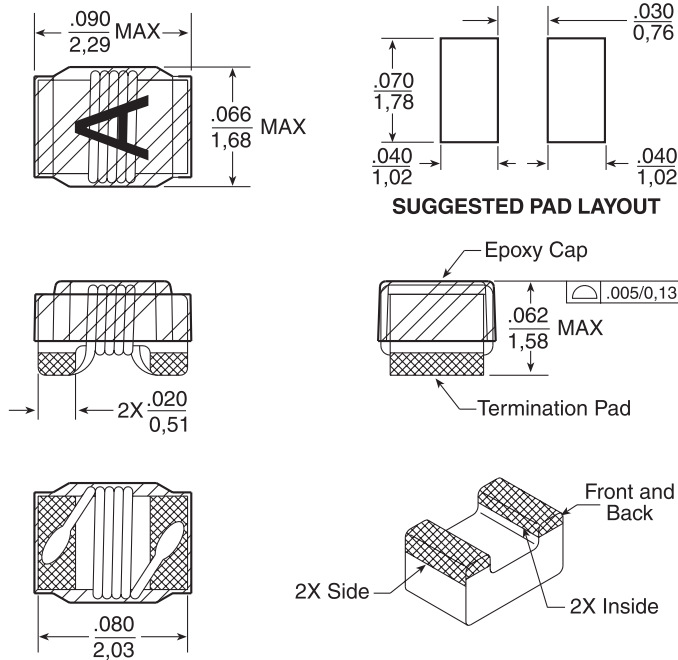
Typical Q vs Frequency



Typical Inductance vs Frequency



Mechanical



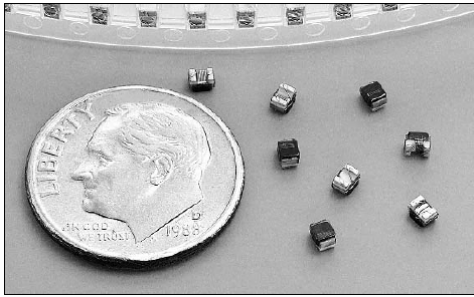
Weight0.012grams




Tape & Reel2000/reel

Dimensions: $\frac{\text{Inches}}{\text{mm}}$

Unless otherwise specified,
all tolerances are $\pm \frac{.010}{0,25}$

WIRE-WOUND RF CHIP INDUCTORS - 0805FT SERIES



-  Wirewound ceramic core construction
-  High Q values and resonant frequency
-  Industry standard 0805 (2012) 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)	Rdc ⁴ (Ω MAX)	I _{dc} ⁵ (mA MAX)
PE-0805FT102KTT	1.0 @ 7.96MHz	±10% (K)	±5% (J)	15 @ 7.96MHz	63	1.20	245
PE-0805FT152KTT	1.5 @ 7.96MHz	±10% (K)	±5% (J)	15 @ 7.96MHz	60	1.45	225
PE-0805FT222KTT	2.2 @ 7.96MHz	±10% (K)	±5% (J)	15 @ 7.96MHz	58	1.80	200
PE-0805FT332KTT	3.3 @ 7.96MHz	±10% (K)	±5% (J)	15 @ 7.96MHz	50	2.30	175
PE-0805FT472KTT	4.7 @ 7.96MHz	±10% (K)	±5% (J)	15 @ 7.96MHz	43	2.80	140
PE-0805FT682KTT	6.8 @ 7.96MHz	±10% (K)	±5% (J)	15 @ 7.96MHz	36	3.40	115
PE-0805FT103KTT	10 @ 2.52MHz	±10% (K)	±5% (J)	10 @ 2.52MHz	30	4.70	98
PE-0805FT153KTT	15 @ 2.52MHz	±10% (K)	±5% (J)	10 @ 2.52MHz	23	6.50	80
PE-0805FT223KTT	22 @ 2.52MHz	±10% (K)	±5% (J)	10 @ 2.52MHz	20	8.00	68
PE-0805FT333KTT	33 @ 2.52MHz	±10% (K)	±5% (J)	10 @ 2.52MHz	17	10.70	60
PE-0805FT473KTT	47 @ 2.52MHz	±10% (K)	±5% (J)	10 @ 2.52MHz	14	13.80	55
PE-0805FT683KTT	68 @ 2.52MHz	±10% (K)	±5% (J)	8 @ 2.52MHz	11	17.50	49

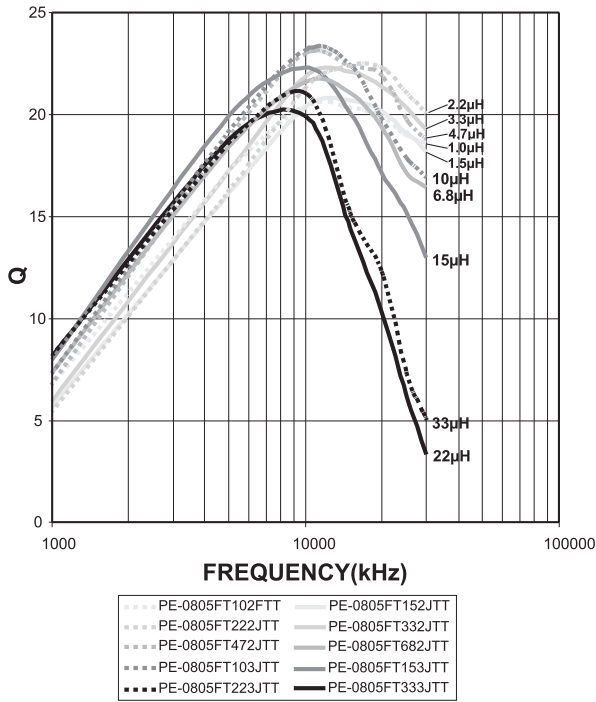
Notes:

1. Inductance measured using a HP4286A RF Impedance Analyzer. (Please note that inductance information is not stamped on part, because of the extremely small size).
2. Q measured using a HP4291A RF Impedance Analyzer with a HP16193A Test Fixture.
3. SRF measured using a HP8753C Network Analyzer.

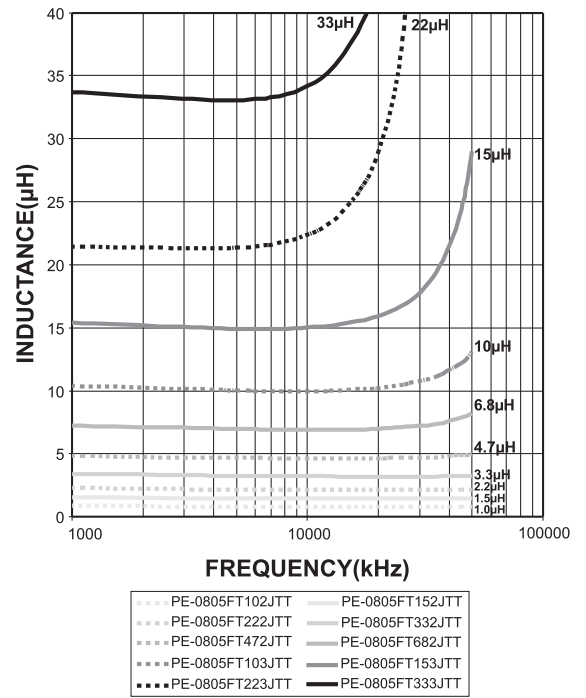
4. Rdc measured using a Valhalla Scientific model 4100 ATC Digital Ohmmeter.
5. Based on a 15°C maximum temperature rise.

CONNECTOR PRODUCTS

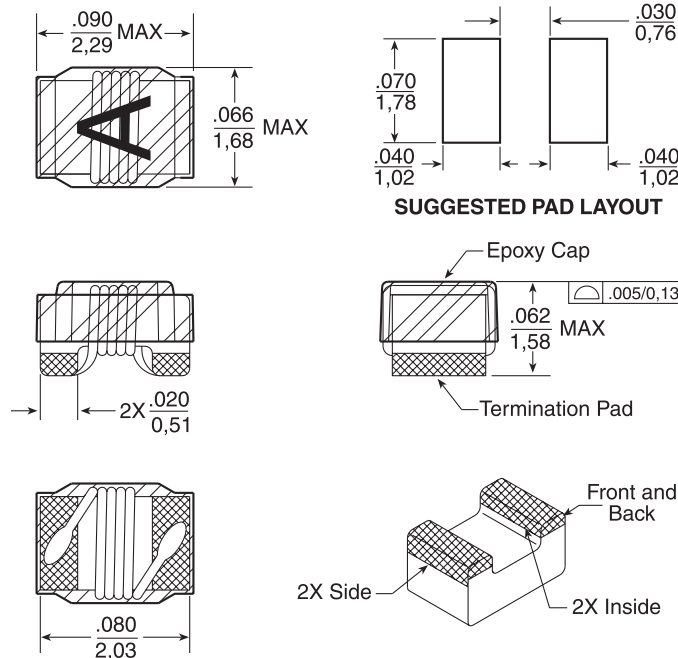
Typical Q vs Frequency



Typical Inductance vs Frequency



Mechanical

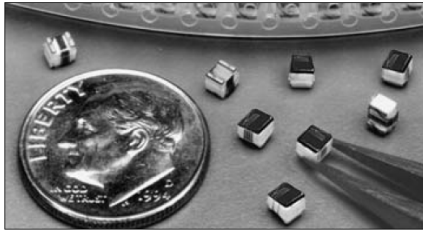


Weight0.012grams
Tape & Reel2000/reel

Dimensions: $\frac{\text{Inches}}{\text{mm}}$

Unless otherwise specified,
all tolerances are $\pm \frac{.010}{0.25}$

WIRE-WOUND RF CHIP INDUCTORS - 1008CD SERIES



- Wirewound ceramic core construction
- High Q values and high self-resonant frequency
- 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)	Rdc ⁴ (Ω MAX)	I _{dc} ⁵ (mA MAX)
PE-1008CD090KTT	9,7 @ 50MHz	±10% (K)	±5% (J), ±2% (G)	50 @ 500MHz	4100	0.09	1000
PE-1008CD100KTT	10 @ 50MHz	±10% (K)	±5% (J), ±2% (G)	50 @ 500MHz	4100	0.09	1000
PE-1008CD120KTT	12 @ 50MHz	±10% (K)	±5% (J), ±2% (G)	50 @ 500MHz	3300	0.09	1000
PE-1008CD140KTT	14,3 @ 50MHz	±10% (K)	±5% (J), ±2% (G)	50 @ 500MHz	1850	0.10	1000
PE-1008CD150KTT	15 @ 50MHz	±10% (K)	±5% (J), ±2% (G)	50 @ 500MHz	1850	0.10	1000
PE-1008CD180KTT	17,8 @ 50MHz	±10% (K)	±5% (J), ±2% (G)	50 @ 350MHz	2500	0.11	1000
PE-1008CD210KTT	20,9 @ 50MHz	±10% (K)	±5% (J), ±2% (G)	55 @ 350MHz	1800	0.12	1000
PE-1008CD220KTT	22 @ 50MHz	±10% (K)	±5% (J), ±2% (G)	55 @ 350MHz	1800	0.12	1000
PE-1008CD260KTT	26,2 @ 50MHz	±10% (K)	±5% (J), ±2% (G)	55 @ 350MHz	1500	0.13	1000
PE-1008CD270KTT	27 @ 50MHz	±10% (K)	±5% (J), ±2% (G)	55 @ 350MHz	1500	0.11	1000
PE-1008CD320KTT	31,8 @ 50MHz	±10% (K)	±5% (J), ±2% (G)	60 @ 350MHz	1600	0.16	1000
PE-1008CD330KTT	33 @ 50MHz	±10% (K)	±5% (J), ±2% (G)	60 @ 350MHz	1600	0.14	1000
PE-1008CD380KTT	38,2 @ 50MHz	±10% (K)	±5% (J), ±2% (G)	60 @ 350MHz	1400	0.15	1000
PE-1008CD390KTT	39 @ 50MHz	±10% (K)	±5% (J), ±2% (G)	60 @ 350MHz	1400	0.12	1000
PE-1008CD450KTT	44,9 @ 50MHz	±10% (K)	±5% (J), ±2% (G)	65 @ 350MHz	1200	0.16	1000
PE-1008CD470KTT	47 @ 50MHz	±10% (K)	±5% (J), ±2% (G)	65 @ 350MHz	1200	0.08	1000
PE-1008CD540KTT	54 @ 50MHz	±10% (K)	±5% (J), ±2% (G)	65 @ 350MHz	1150	0.18	1000
PE-1008CD560KTT	56 @ 50MHz	±10% (K)	±5% (J), ±2% (G)	65 @ 350MHz	1150	0.12	1000
PE-1008CD650KTT	65 @ 50MHz	±10% (K)	±5% (J), ±2% (G)	65 @ 350MHz	1100	0.20	1000
PE-1008CD680KTT	68 @ 50MHz	±10% (K)	±5% (J), ±2% (G)	65 @ 350MHz	1100	0.07	1000
PE-1008CD790KTT	79 @ 50MHz	±10% (K)	±5% (J), ±2% (G)	60 @ 350MHz	950	0.22	1000
PE-1008CD820KTT	82 @ 50MHz	±10% (K)	±5% (J), ±2% (G)	60 @ 350MHz	950	0.14	1000
PE-1008CD960KTT	96,1 @ 25MHz	±10% (K)	±5% (J), ±2% (G)	40 @ 350MHz	900	0.56	650
PE-1008CD101KTT	100 @ 25MHz	±10% (K)	±5% (J), ±2% (G)	60 @ 350MHz	900	0.15	650
PE-1008CD121KTT	120 @ 25MHz	±10% (K)	±5% (J), ±2% (G)	60 @ 350MHz	950	0.63	650
PE-1008CD141KTT	145,7 @ 25MHz	±10% (K)	±5% (J), ±2% (G)	45 @ 100MHz	625	0.70	580
PE-1008CD151KTT	150 @ 25MHz	±10% (K)	±5% (J), ±2% (G)	45 @ 100MHz	625	0.16	580

(Continued on next page)

WIRE-WOUND RF CHIP INDUCTORS - 1008CD SERIES

Electrical Specifications @ 25°C

Part Number	Inductance ¹ (nH)	Standard Tolerance	Optional Tolerance	Q ² (MIN)	SRF ³ (MHz MIN)	Rdc ⁴ (Ω MAX)	I _{dc} ⁵ (mA MAX)
PE-1008CD161KTT	160 @ 25MHz	±10% (K)	±5% (J), ±2% (G)	45 @ 100MHz	625	0.77	600
PE-1008CD171KTT	170.2 @ 25MHz	±10% (K)	±5% (J), ±2% (G)	45 @ 100MHz	625	0.77	620
PE-1008CD181KTT	180 @ 25MHz	±10% (K)	±5% (J), ±2% (G)	45 @ 100MHz	650	0.77	620
PE-1008CD211KTT	216 @ 25MHz	±10% (K)	±5% (J), ±2% (G)	45 @ 100MHz	625	0.84	500
PE-1008CD221KTT	220 @ 25MHz	±10% (K)	±5% (J), ±2% (G)	45 @ 100MHz	625	0.84	500
PE-1008CD261KTT	260.5 @ 25MHz	±10% (K)	±5% (J), ±2% (G)	45 @ 100MHz	525	0.91	500
PE-1008CD271KTT	270 @ 25MHz	±10% (K)	±5% (J), ±2% (G)	45 @ 350MHz	525	0.91	500
PE-1008CD311KTT	313.6 @ 25MHz	±10% (K)	±5% (J), ±2% (G)	45 @ 100MHz	500	1.05	450
PE-1008CD331KTT	330 @ 25MHz	±10% (K)	±5% (J), ±2% (G)	45 @ 100MHz	500	1.05	450
PE-1008CD361KTT	365 @ 25MHz	±10% (K)	±5% (J), ±2% (G)	45 @ 100MHz	500	1.12	470
PE-1008CD391KTT	390 @ 25MHz	±10% (K)	±5% (J), ±2% (G)	45 @ 100MHz	475	1.12	470
PE-1008CD451KTT	447 @ 25MHz	±10% (K)	±5% (J), ±2% (G)	45 @ 100MHz	450	1.19	420
PE-1008CD471KTT	470 @ 25MHz	±10% (K)	±5% (J), ±2% (G)	45 @ 100MHz	450	1.19	420
PE-1008CD541KTT	535 @ 25MHz	±10% (K)	±5% (J), ±2% (G)	45 @ 100MHz	415	1.33	310
PE-1008CD561KTT	560 @ 25MHz	±10% (K)	±5% (J), ±2% (G)	45 @ 100MHz	415	1.33	310
PE-1008CD591KTT	586 @ 25MHz	±10% (K)	±5% (J), ±2% (G)	45 @ 100MHz	375	1.40	300
PE-1008CD621KTT	620 @ 25MHz	±10% (K)	±5% (J), ±2% (G)	45 @ 100MHz	375	1.40	300
PE-1008CD641KTT	636 @ 25MHz	±10% (K)	±5% (J), ±2% (G)	45 @ 100MHz	375	1.47	230
PE-1008CD681KTT	680 @ 25MHz	±10% (K)	±5% (J), ±2% (G)	45 @ 100MHz	375	1.47	230
PE-1008CD711KTT	708.8 @ 25MHz	±10% (K)	±5% (J), ±2% (G)	45 @ 100MHz	1100	1.54	200
PE-1008CD751KTT	750 @ 25MHz	±10% (K)	±5% (J), ±2% (G)	45 @ 100MHz	950	1.61	200
PE-1008CD771KTT	768 @ 25MHz	±10% (K)	±5% (J), ±2% (G)	45 @ 100MHz	950	1.61	180
PE-1008CD821KTT	820 @ 25MHz	±10% (K)	±5% (J), ±2% (G)	45 @ 100MHz	900	1.61	180
PE-1008CD851KTT	849.8 @ 25MHz	±10% (K)	±5% (J), ±2% (G)	35 @ 50MHz	900	1.68	150
PE-1008CD911KTT	909.5 @ 25MHz	±10% (K)	±5% (J), ±2% (G)	35 @ 50MHz	290	1.75	150
PE-1008CD102KTT	1000 @ 25MHz	±10% (K)	±5% (J), ±2% (G)	35 @ 50MHz	260	1.90	120
PE-1008CD112KTT	1184 @ 7.9MHz	±10% (K)	±5% (J), ±2% (G)	35 @ 50MHz	250	2.00	310
PE-1008CD122KTT	1200 @ 7.9MHz	±10% (K)	±5% (J), ±2% (G)	35 @ 50MHz	250	2.00	310
PE-1008CD142KTT	1470 @ 7.9MHz	±10% (K)	±5% (J), ±2% (G)	28 @ 50MHz	200	2.30	330
PE-1008CD152KTT	1500 @ 7.9MHz	±10% (K)	±5% (J), ±2% (G)	28 @ 50MHz	200	2.30	330
PE-1008CD182KTT	1792.9 @ 7.9MHz	±10% (K)	±5% (J), ±2% (G)	28 @ 50MHz	160	2.60	300
PE-1008CD212KTT	2154.5 @ 7.9MHz	±10% (K)	±5% (J), ±2% (G)	28 @ 50MHz	80	2.80	280
PE-1008CD222KTT	2200 @ 7.9MHz	±10% (K)	±5% (J), ±2% (G)	28 @ 50MHz	80	2.80	280
PE-1008CD262KTT	2646.8 @ 7.9MHz	±10% (K)	±5% (J), ±2% (G)	22 @ 50MHz	90	3.20	290
PE-1008CD272KTT	2700 @ 7.9MHz	±10% (K)	±5% (J), ±2% (G)	22 @ 50MHz	90	3.20	290

(Continued on next page)

WIRE-WOUND RF CHIP INDUCTORS - 1008CD SERIES

Electrical Specifications @ 25°C

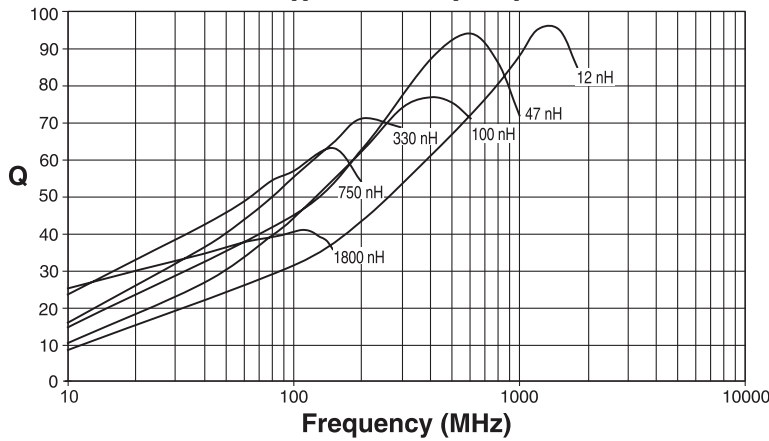
Part Number	Inductance ¹ (nH)	Standard Tolerance	Optional Tolerance	Q ² (MIN)	SRF ³ (MHz MIN)	Rdc ⁴ (Ω MAX)	I _{dc} ⁵ (mA MAX)
PE-1008CD322KTT	3207.6 @ 7.9MHz	±10% (K)	±5% (J), ±2% (G)	22 @ 25MHz	40	3.40	290
PE-1008CD332KTT	3300 @ 7.9MHz	±10% (K)	±5% (J), ±2% (G)	22 @ 25MHz	40	3.40	290
PE-1008CD372KTT	3758.2 @ 7.9MHz	±10% (K)	±5% (J), ±2% (G)	20 @ 25MHz	35	3.60	260
PE-1008CD392KTT	3900 @ 7.9MHz	±10% (K)	±5% (J), ±2% (G)	20 @ 25MHz	35	3.60	260
PE-1008CD452KTT	4526.2 @ 7.9MHz	±10% (K)	±5% (J), ±2% (G)	20 @ 25MHz	25	4.00	260
PE-1008CD472KTT	4700 @ 7.9MHz	±10% (K)	±5% (J), ±2% (G)	20 @ 25MHz	25	4.00	260
PE-1008CD562KTT	5600 @ 7.9MHz	±10% (K)	±5% (J), ±2% (G)	20 @ 25MHz	60	5.40	240
PE-1008CD682KTT	6800 @ 7.9MHz	±10% (K)	±5% (J), ±2% (G)	18 @ 7.9MHz	40	4.90	200
PE-1008CD822KTT	8200 @ 7.9MHz	±10% (K)	±5% (J), ±2% (G)	18 @ 7.9MHz	25	6.00	160

*** For other inductance values in 1008 size, please refer to 1008CM (page 21-22) and 1008CQ (page 23) ***

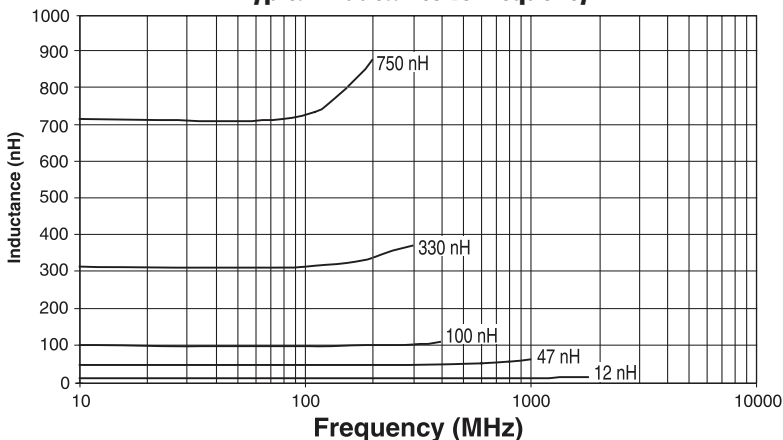
Notes:

- Inductance measured using a HP4286A RF Impedance Analyzer. (Please note that inductance information is not stamped on part, because of the extremely small size).
- Q measured using a HP4291A RF Impedance Analyzer with a HP16193A Test Fixture.
- SRF measured using a HP8753C Network Analyzer.
- Rdc measured using a Valhalla Scientific model 4100 ATC Digital Ohmmeter.
- Based on a 15°C maximum temperature rise.
- Component Weight: 0.032 grams typical.
- These components are 0.055" in height.

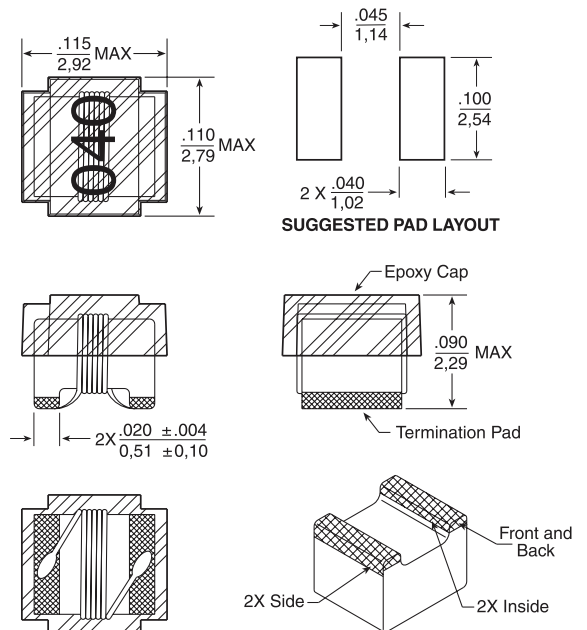
Typical Q vs Frequency



Typical Inductance vs Frequency



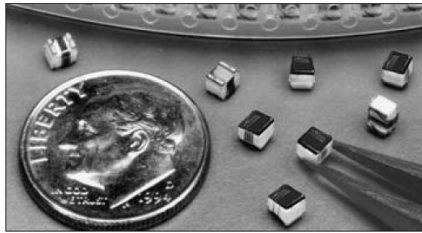
Mechanical



Dimensions: $\frac{\text{Inches}}{\text{mm}}$

Unless otherwise specified, all tolerances are $\pm \frac{.010}{0.25}$

WIRE-WOUND RF CHIP INDUCTORS - 1008CM SERIES



- Wirewound ceramic core construction
- High Q values and high self-resonant frequency
- 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)	Rdc ⁴ (Ω MAX)	I _{dc} ⁵ (mA MAX)
PE-1008CM100KTT	10 @ 50MHz	±10% (K)	±5% (J), ±2% (G)	50 @ 500MHz	4100	0.09	1000
PE-1008CM120KTT	12 @ 50MHz	±10% (K)	±5% (J), ±2% (G)	65 @ 500MHz	4100	0.09	1000
PE-1008CM150KTT	15 @ 50MHz	±10% (K)	±5% (J), ±2% (G)	55 @ 500MHz	3300	0.09	1000
PE-1008CM180KTT	18 @ 50MHz	±10% (K)	±5% (J), ±2% (G)	55 @ 500MHz	1850	0.10	1000
PE-1008CM220KTT	22 @ 50MHz	±10% (K)	±5% (J), ±2% (G)	55 @ 500MHz	1850	0.10	1000
PE-1008CM270KTT	27 @ 50MHz	±10% (K)	±5% (J), ±2% (G)	60 @ 350MHz	2500	0.11	1000
PE-1008CM330KTT	33 @ 50MHz	±10% (K)	±5% (J), ±2% (G)	60 @ 350MHz	1800	0.18	800
PE-1008CM390KTT	39 @ 50MHz	±10% (K)	±5% (J), ±2% (G)	70 @ 350MHz	1400	0.12	1000
PE-1008CM470KTT	47 @ 50MHz	±10% (K)	±5% (J), ±2% (G)	70 @ 350MHz	1200	0.08	1000
PE-1008CM560KTT	56 @ 50MHz	±10% (K)	±5% (J), ±2% (G)	60 @ 350MHz	1150	0.12	1000
PE-1008CM680KTT	68 @ 50MHz	±10% (K)	±5% (J), ±2% (G)	70 @ 350MHz	1100	0.07	1000
PE-1008CM820KTT	82 @ 50MHz	±10% (K)	±5% (J), ±2% (G)	65 @ 350MHz	950	0.14	950
PE-1008CM101KTT	100 @ 25MHz	±10% (K)	±5% (J), ±2% (G)	65 @ 350MHz	900	0.15	650
PE-1008CM121KTT	120 @ 25MHz	±10% (K)	±5% (J), ±2% (G)	60 @ 350MHz	825	0.22	650
PE-1008CM151KTT	150 @ 25MHz	±10% (K)	±5% (J), ±2% (G)	50 @ 100MHz	625	0.16	580
PE-1008CM161KTT	160 @ 25MHz	±10% (K)	±5% (J), ±2% (G)	50 @ 100MHz	625	0.25	600
PE-1008CM181KTT	180 @ 25MHz	±10% (K)	±5% (J), ±2% (G)	50 @ 100MHz	650	0.25	600
PE-1008CM201KTT	200 @ 25MHz	±10% (K)	±5% (J), ±2% (G)	50 @ 100MHz	630	0.24	580
PE-1008CM221KTT	220 @ 25MHz	±10% (K)	±5% (J), ±2% (G)	50 @ 100MHz	625	0.28	500
PE-1008CM271KTT	270 @ 25MHz	±10% (K)	±5% (J), ±2% (G)	45 @ 100MHz	525	0.50	500
PE-1008CM331KTT	330 @ 25MHz	±10% (K)	±5% (J), ±2% (G)	50 @ 100MHz	500	0.80	450
PE-1008CM371KTT	370 @ 25MHz	±10% (K)	±5% (J), ±2% (G)	50 @ 100MHz	490	0.80	430
PE-1008CM391KTT	390 @ 25MHz	±10% (K)	±5% (J), ±2% (G)	50 @ 100MHz	475	0.75	425
PE-1008CM401KTT	400 @ 25MHz	±10% (K)	±5% (J), ±2% (G)	50 @ 100MHz	470	0.75	420
PE-1008CM471KTT	470 @ 25MHz	±10% (K)	±5% (J), ±2% (G)	50 @ 100MHz	450	0.70	350
PE-1008CM561KTT	560 @ 25MHz	±10% (K)	±5% (J), ±2% (G)	50 @ 100MHz	425	0.80	350
PE-1008CM621KTT	620 @ 25MHz	±10% (K)	±5% (J), ±2% (G)	45 @ 100MHz	375	1.90	200

(Continued on next page)

WIRE-WOUND RF CHIP INDUCTORS - 1008CM SERIES

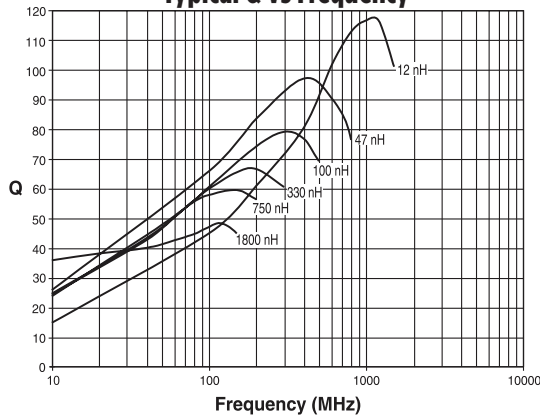
Electrical Specifications @ 25°C

Part Number	Inductance ¹ (nH)	Standard Tolerance	Optional Tolerance	Q ² (MIN)	SRF ³ (MHz MIN)	Rdc ⁴ (Ω MAX)	I _{dc} ⁵ (mA MAX)
PE-1008CM681KTT	680 @ 25MHz	±10% (K)	±5% (J), ±2% (G)	45 @ 100MHz	375	2.30	200
PE-1008CM751KTT	750 @ 25MHz	±10% (K)	±5% (J), ±2% (G)	45 @ 100MHz	350	1.60	200
PE-1008CM821KTT	820 @ 25MHz	±10% (K)	±5% (J), ±2% (G)	40 @ 100MHz	325	3.30	200
PE-1008CM911KTT	910 @ 25MHz	±10% (K)	±5% (J), ±2% (G)	40 @ 50MHz	300	2.10	200
PE-1008CM102KTT	1000 @ 25MHz	±10% (K)	±5% (J), ±2% (G)	40 @ 50MHz	300	1.80	200
PE-1008CM122KTT	1200 @ 10MHz	±10% (K)	±5% (J), ±2% (G)	40 @ 50MHz	250	3.00	200
PE-1008CM152KTT	1500 @ 10MHz	±10% (K)	±5% (J), ±2% (G)	40 @ 50MHz	200	4.00	150
PE-1008CM182KTT	1800 @ 10MHz	±10% (K)	±5% (J), ±2% (G)	40 @ 50MHz	150	5.09	150
PE-1008CM222KTT	2200 @ 10MHz	±10% (K)	±5% (J), ±2% (G)	30 @ 25MHz	80	5.85	150
PE-1008CM272KTT	2700 @ 10MHz	±10% (K)	±5% (J), ±2% (G)	30 @ 25MHz	90	7.70	150
PE-1008CM332KTT	3300 @ 10MHz	±10% (K)	±5% (J), ±2% (G)	25 @ 15MHz	40	7.80	150
PE-1008CM392KTT	3900 @ 10MHz	±10% (K)	±5% (J), ±2% (G)	20 @ 15MHz	35	8.30	135
PE-1008CM472KTT	4700 @ 10MHz	±10% (K)	±5% (J), ±2% (G)	16 @ 15MHz	25	6.00	150

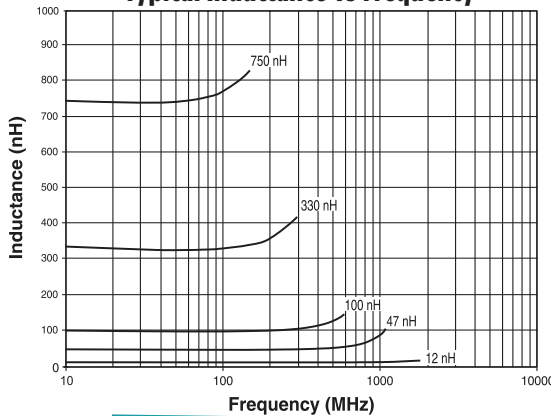
Notes:

- Inductance measured using a HP4286A RF Impedance Analyzer. (Please note that inductance information is not stamped on part, because of the extremely small size).
- Q measured using a HP4291A RF Impedance Analyzer with a HP16193A Test Fixture.
- SRF measured using a HP8753C Network Analyzer.
- Rdc measured using a Valhalla Scientific model 4100 ATC Digital Ohmeter.
- Based on a 15°C maximum temperature rise.
- Component Weight: 0.032 grams typical.

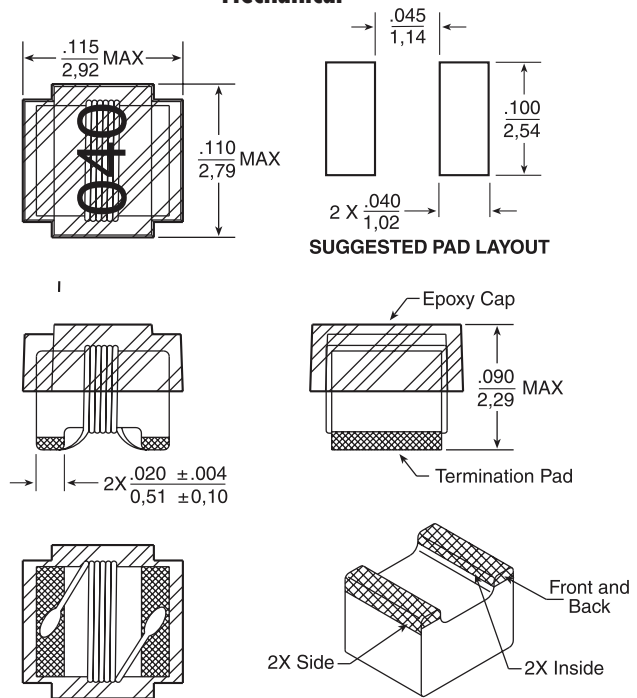
Typical Q vs Frequency



Typical Inductance vs Frequency



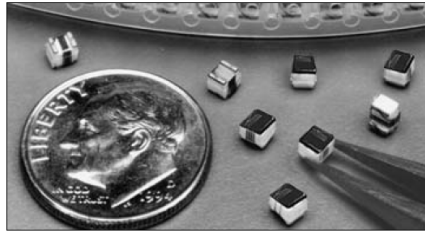
Mechanical



Dimensions: $\frac{\text{Inches}}{\text{mm}}$

Unless otherwise specified, all tolerances are $\pm \frac{.010}{0.25}$

WIRE-WOUND RF CHIP INDUCTORS - 1008CQ SERIES



- Wirewound ceramic core construction
- High Q values and I_{dc} values
- High self-resonant frequency
- 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 Min ³ (MHz MIN)	R _{dc} ⁴ (Ω MAX)	I _{dc} ⁵ (mA MAX)
PE-1008CQ4N1KTT	4.1 @ 50MHz	±10% (K)	±5% (J)	75 @ 1500MHz	6000	0.05	1600
PE-1008CQ100KTT	10 @ 50MHz	±10% (K)	±5% (J)	60 @ 500MHz	3600	0.06	1600
PE-1008CQ120KTT	12 @ 50MHz	±10% (K)	±5% (J)	70 @ 500MHz	2800	0.06	1500
PE-1008CQ180KTT	18 @ 50MHz	±10% (K)	±5% (J)	62 @ 350MHz	2700	0.07	1400
PE-1008CQ220KTT	22 @ 50MHz	±10% (K)	±5% (J)	62 @ 350MHz	2050	0.07	1400
PE-1008CQ330KTT	33 @ 50MHz	±10% (K)	±5% (J)	75 @ 350MHz	1700	0.09	1300
PE-1008CQ390KTT	39 @ 50MHz	±10% (K)	±5% (J)	75 @ 350MHz	1300	0.09	1300
PE-1008CQ470KTT	47 @ 50MHz	±10% (K)	±5% (J)	75 @ 350MHz	1450	0.12	1200
PE-1008CQ560KTT	56 @ 50MHz	±10% (K)	±5% (J)	75 @ 350MHz	1230	0.12	1200
PE-1008CQ680KTT	68 @ 50MHz	±10% (K)	±5% (J)	80 @ 350MHz	1150	0.13	1100
PE-1008CQ820KTT	82 @ 50MHz	±10% (K)	±5% (J)	80 @ 350MHz	1060	0.16	1100
PE-1008CQ101KTT	100 @ 50MHz	±10% (K)	±5% (J)	62 @ 350MHz	820	0.16	1000
PE-1008CQ121KTT	120 @ 50MHz	±10% (K)	±5% (J)	62 @ 350MHz	800	0.17	1000
PE-1008CQ151KTT	150 @ 50MHz	±10% (K)	±5% (J)	60 @ 350MHz	750	0.21	950
PE-1008CQ181KTT	180 @ 50MHz	±10% (K)	±5% (J)	40 @ 350MHz	720	0.23	920
PE-1008CQ221KTT	220 @ 50MHz	±10% (K)	±5% (J)	35 @ 350MHz	680	0.29	900
PE-1008CQ271KTT	270 @ 50MHz	±10% (K)	±5% (J)	35 @ 350MHz	600	0.55	600
PE-1008CQ331KTT	330 @ 50MHz	±10% (K)	±5% (J)	35 @ 100MHz	550	0.60	550
PE-1008CQ391KTT	390 @ 50MHz	±10% (K)	±5% (J)	35 @ 350MHz	500	0.82	470

Notes:

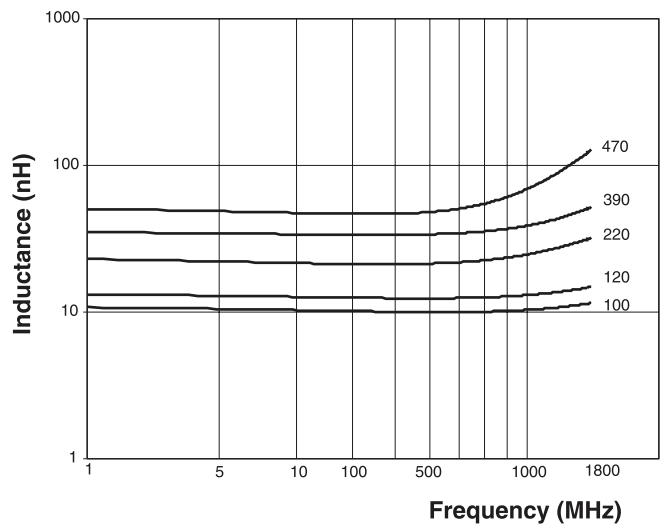
1. Inductance measured using a HP4286A RF Impedance Analyzer. (Please note that inductance information is not stamped on part, because of the extremely small size).
2. Q measured using a HP4291A RF Impedance Analyzer with a HP16193A Test Fixture.
3. SRF measured using a HP8753C Network Analyzer.
4. R_{dc} 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

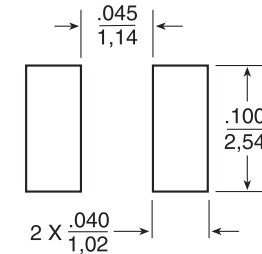
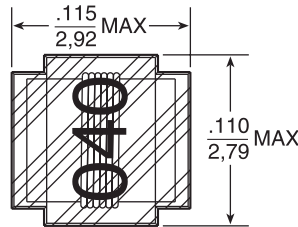
Typical Q vs Frequency



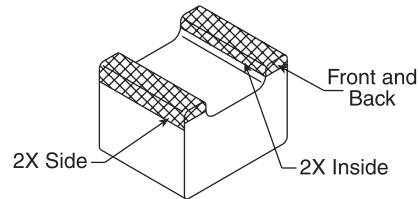
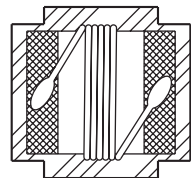
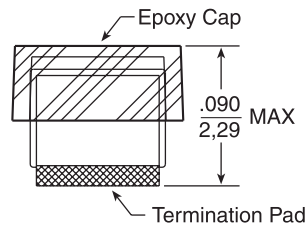
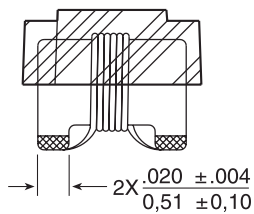
Typical Inductance vs Frequency



Mechanical



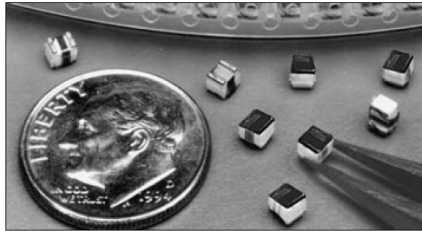
SUGGESTED PAD LAYOUT






Dimensions: $\frac{\text{Inches}}{\text{mm}}$

Unless otherwise specified, all tolerances are $\pm \frac{.010}{0.25}$

WIRE-WOUND RF CHIP INDUCTORS - 1206CD SERIES



-  Wirewound ceramic core construction
 -  High Q values and self-resonant frequency
 -  Industry standard 1206 (3216) SMT 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 Min ³ (MHz MIN)	Rdc 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 @ 100MHz	±10% (K)	±5% (J), ±2% (G)	55 @ 300MHz	1100	0.26	850
PE-1206CD121KTT	120 @ 100MHz	±10% (K)	±5% (J), ±2% (G)	60 @ 350MHz	1100	0.26	800
PE-1206CD151KTT	150 @ 100MHz	±10% (K)	±5% (J), ±2% (G)	60 @ 350MHz	950	0.31	750
PE-1206CD181KTT	180 @ 50MHz	±10% (K)	±5% (J), ±2% (G)	60 @ 100MHz	900	0.43	700
PE-1206CD221KTT	220 @ 50MHz	±10% (K)	±5% (J), ±2% (G)	60 @ 350MHz	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-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

(Continued on next page)

WIRE-WOUND RF CHIP INDUCTORS - 1206CD SERIES

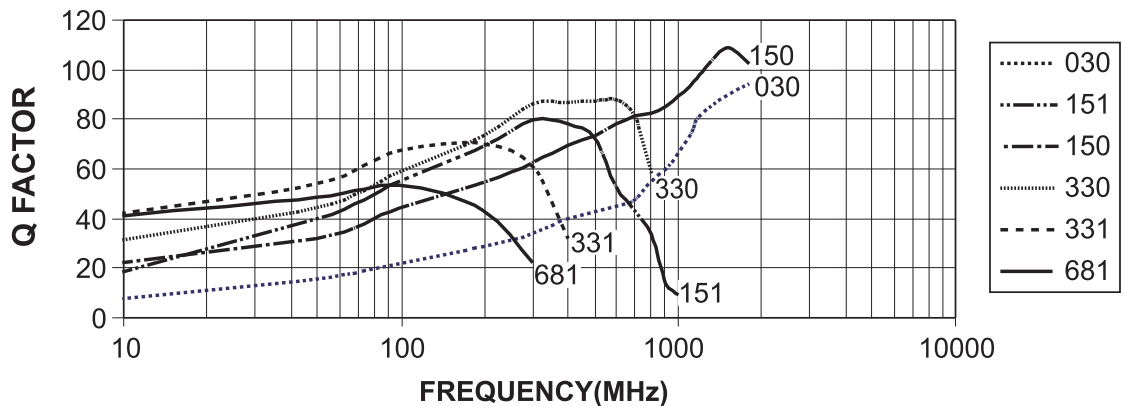
Electrical Specifications @ 25°C

Part Number	Inductance ¹ (nH)	Standard Tolerance	Optional Tolerance	Q ² (MIN)	SRF Min ³ (MHz MIN)	Rdc ⁴ (Ω MAX)	I _{dc} ⁵ (mA MAX)
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

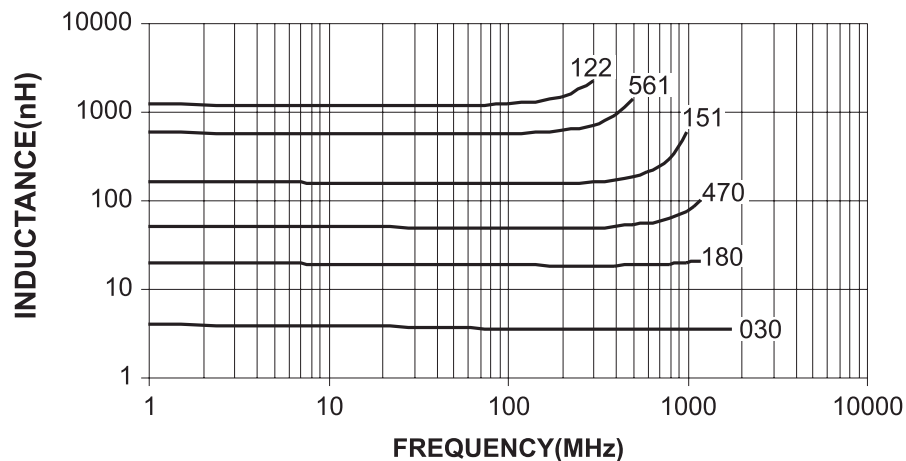
Notes:

- Inductance measured using a HP4286A RF Impedance Analyzer. (Please note that inductance information is not stamped on part, because of the extremely small size).
- Q measured using a HP4291A RF Impedance Analyzer with a HP16193A Test Fixture.
- SRF measured using a HP8753C Network Analyzer.
- Rdc measured using a Valhalla Scientific model 4100 ATC Digital Ohmmeter.
- Based on a 15°C maximum temperature rise.
- Component Weight: 0.035 grams typical.
- These components are 0.060" in height.

Typical Q vs Frequency

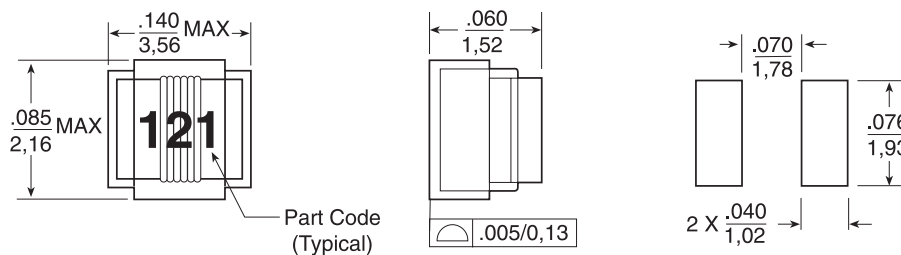


Typical Inductance vs Frequency



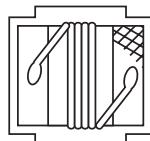
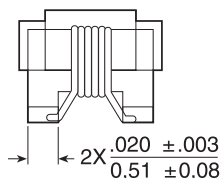
WIRE-WOUND RF CHIP INDUCTORS - 1206CD SERIES

Mechanical



Part Code
(Typical)

BOTTOM VIEW



Dimensions: $\frac{\text{Inches}}{\text{mm}}$

Unless otherwise specified, all tolerances are $\pm \frac{.010}{0,25}$

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