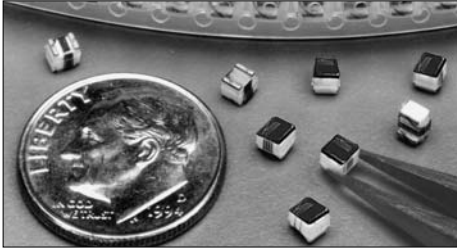






WIRE-WOUND RF CHIP INDUCTORS - 1008CD SERIES



-  Wirewound ceramic core construction
-  High Q values and high self-resonant frequency
-  Industry standard 1008 (2520) 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 ³ (MHz MIN)	R _{DC} ⁴ (Ω MAX)	I _{DC} ⁵ (mA MAX)
PE-1008CD090KTT	9,7 @ 50MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	50 @ 500MHz	4100	0.09	1000
PE-1008CD100KTT	10 @ 50MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	50 @ 500MHz	4100	0.09	1000
PE-1008CD120KTT	12 @ 50MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	50 @ 500MHz	3300	0.09	1000
PE-1008CD140KTT	14,3 @ 50MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	50 @ 500MHz	1850	0.10	1000
PE-1008CD150KTT	15 @ 50MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	50 @ 500MHz	1850	0.10	1000
PE-1008CD180KTT	17,8 @ 50MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	50 @ 350MHz	2500	0.11	1000
PE-1008CD210KTT	20,9 @ 50MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	55 @ 350MHz	1800	0.12	1000
PE-1008CD220KTT	22 @ 50MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	55 @ 350MHz	1800	0.12	1000
PE-1008CD260KTT	26,2 @ 50MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	55 @ 350MHz	1500	0.13	1000
PE-1008CD270KTT	27 @ 50MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	55 @ 350MHz	1500	0.11	1000
PE-1008CD320KTT	31,8 @ 50MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	60 @ 350MHz	1600	0.16	1000
PE-1008CD330KTT	33 @ 50MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	60 @ 350MHz	1600	0.14	1000
PE-1008CD380KTT	38,2 @ 50MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	60 @ 350MHz	1400	0.15	1000
PE-1008CD390KTT	39 @ 50MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	60 @ 350MHz	1400	0.12	1000
PE-1008CD450KTT	44,9 @ 50MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	65 @ 350MHz	1200	0.16	1000
PE-1008CD470KTT	47 @ 50MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	65 @ 350MHz	1200	0.08	1000
PE-1008CD540KTT	54 @ 50MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	65 @ 350MHz	1150	0.18	1000
PE-1008CD560KTT	56 @ 50MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	65 @ 350MHz	1150	0.12	1000
PE-1008CD650KTT	65 @ 50MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	65 @ 350MHz	1100	0.20	1000
PE-1008CD680KTT	68 @ 50MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	65 @ 350MHz	1100	0.07	1000
PE-1008CD790KTT	79 @ 50MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	60 @ 350MHz	950	0.22	1000
PE-1008CD820KTT	82 @ 50MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	60 @ 350MHz	950	0.14	1000
PE-1008CD960KTT	96,1 @ 25MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	60 @ 350MHz	900	0.56	650
PE-1008CD101KTT	100 @ 25MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	60 @ 350MHz	900	0.15	650
PE-1008CD121KTT	120 @ 25MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	60 @ 350MHz	950	0.63	650
PE-1008CD141KTT	145,7 @ 25MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	45 @ 100MHz	625	0.70	580
PE-1008CD151KTT	150 @ 25MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	45 @ 100MHz	625	0.16	580
PE-1008CD161KTT	160 @ 25MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	45 @ 100MHz	625	0.77	600
PE-1008CD171KTT	170,2 @ 25MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	45 @ 100MHz	650	0.77	620
PE-1008CD181KTT	180 @ 25MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	45 @ 100MHz	650	0.77	620
PE-1008CD211KTT	216 @ 25MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	45 @ 100MHz	625	0.84	500
PE-1008CD221KTT	220 @ 25MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	45 @ 100MHz	625	0.84	500
PE-1008CD261KTT	260,5 @ 25MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	45 @ 100MHz	525	0.91	500
PE-1008CD271KTT	270 @ 25MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	45 @ 100MHz	525	0.91	500
PE-1008CD311KTT	313,6 @ 25MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	45 @ 100MHz	500	1.05	450
PE-1008CD331KTT	330 @ 25MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	45 @ 100MHz	500	1.05	450
PE-1008CD361KTT	365 @ 25MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	45 @ 100MHz	500	1.12	470
PE-1008CD391KTT	390 @ 25MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	45 @ 100MHz	475	1.12	470
PE-1008CD451KTT	447 @ 25MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	45 @ 100MHz	450	1.19	420
PE-1008CD471KTT	470 @ 25MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	45 @ 100MHz	450	1.19	420
PE-1008CD541KTT	535 @ 25MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	45 @ 100MHz	415	1.33	310
PE-1008CD561KTT	560 @ 25MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	45 @ 100MHz	415	1.33	310
PE-1008CD591KTT	586 @ 25MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	45 @ 100MHz	375	1.40	300
PE-1008CD621KTT	620 @ 25MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	45 @ 100MHz	375	1.40	300
PE-1008CD641KTT	636 @ 25MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	45 @ 100MHz	375	1.47	230
PE-1008CD681KTT	680 @ 25MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	45 @ 100MHz	375	1.47	230
PE-1008CD711KTT	708,8 @ 25MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	45 @ 100MHz	360	1.54	200
PE-1008CD751KTT	750 @ 25MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	45 @ 100MHz	350	1.61	200
PE-1008CD771KTT	768 @ 25MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	45 @ 100MHz	325	1.61	180
PE-1008CD821KTT	820 @ 25MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	45 @ 100MHz	325	1.61	180
PE-1008CD851KTT	849.8 @ 25MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	35 @ 50MHz	320	1.68	150

(Continued on next page)

WIRE-WOUND RF CHIP INDUCTORS - 1008CD SERIES



Electrical Specifications @ 25°C (continued)

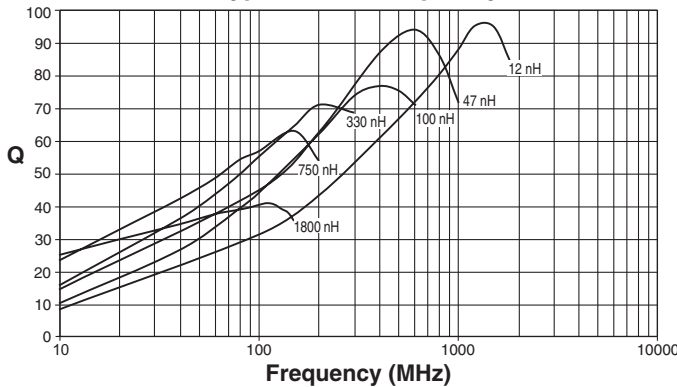
Part Number	Inductance ¹ (nH)	Standard Tolerance	Optional Tolerance	Q ² (MIN)	SRF ³ (MHz MIN)	R _{DC} ⁴ (Ω MAX)	I _{DC} ⁵ (mA MAX)
PE-1008CD911KTT	909.5 @ 25MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	35 @ 50MHz	290	1.75	150
PE-1008CD102KTT	1000 @ 25MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	35 @ 50MHz	260	1.90	120
PE-1008CD112KTT	1184 @ 7.9MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	35 @ 50MHz	250	2.00	310
PE-1008CD122KTT	1200 @ 7.9MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	35 @ 50MHz	250	2.00	310
PE-1008CD142KTT	1470 @ 7.9MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	28 @ 50MHz	200	2.30	330
PE-1008CD152KTT	1500 @ 7.9MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	28 @ 50MHz	200	2.30	330
PE-1008CD182KTT	1792.9 @ 7.9MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	28 @ 50MHz	160	2.60	300
PE-1008CD212KTT	2154.5 @ 7.9MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	28 @ 50MHz	80	2.80	280
PE-1008CD222KTT	2200 @ 7.9MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	28 @ 50MHz	80	2.80	280
PE-1008CD262KTT	2646.8 @ 7.9MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	22 @ 25MHz	90	3.20	290
PE-1008CD272KTT	2700 @ 7.9MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	22 @ 25MHz	90	3.20	290
PE-1008CD322KTT	3207.6 @ 7.9MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	22 @ 25MHz	40	3.40	290
PE-1008CD332KTT	3300 @ 7.9MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	22 @ 25MHz	40	3.40	290
PE-1008CD372KTT	3758.2 @ 7.9MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	20 @ 25MHz	35	3.60	260
PE-1008CD392KTT	3900 @ 7.9MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	20 @ 25MHz	35	3.60	260
PE-1008CD452KTT	4526.2 @ 7.9MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	20 @ 25MHz	25	4.00	260
PE-1008CD472KTT	4700 @ 7.9MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	20 @ 25MHz	25	4.00	260
PE-1008CD562KTT	5600 @ 7.9MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	20 @ 25MHz	60	5.40	240
PE-1008CD682KTT	6800 @ 7.9MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	18 @ 7.9MHz	40	4.90	200
PE-1008CD822KTT	8200 @ 7.9MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	18 @ 7.9MHz	25	6.00	160

For other inductance values in 1008 size, please refer to 1008CM (pages 18-19) and 1008CQ (pages 20-21)

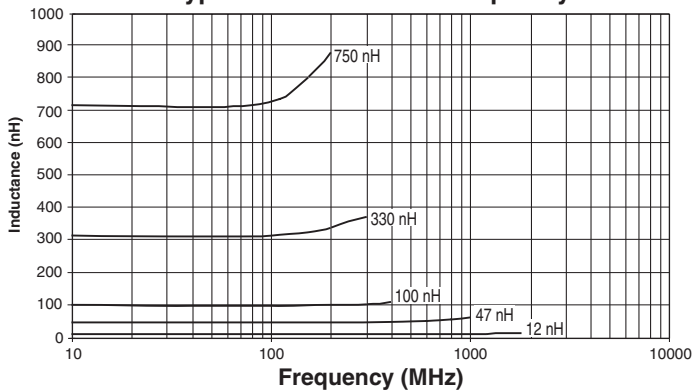
Notes:

- Inductance measured using a HP4286A 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 Valhalla Scientific model 4100 ATC Digital Ohmmeter.
- Based on a 15°C maximum temperature rise.
- Sample Kit Part Number: **PE-1008CDKIT-T**
- Component Weight: 0.032 grams typical.

Typical Q vs Frequency



Typical Inductance vs Frequency



Mechanical

