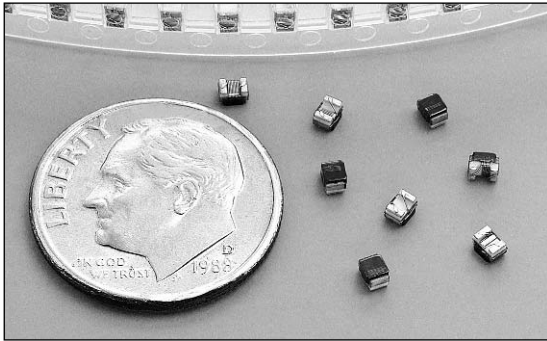




WIRE-WOUND RF CHIP INDUCTORS - 0805CD SERIES



-  Wirewound ceramic core construction 
-  High Q values and 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)	R _{DC} ⁴ (Ω MAX)	I _{DC} ⁵ (mA MAX)
PE-0805CD2N8KTT	2.8 @ 250MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	80 @ 1500MHz	>6000	0.06	600
PE-0805CD3N0KTT	3.0 @ 250MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	65 @ 1500MHz	>6000	0.06	600
PE-0805CD030KTT	3.32 @ 250MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	40 @ 1500MHz	6000	0.08	600
PE-0805CD050KTT	5.6 @ 250MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	50 @ 1500MHz	5500	0.10	600
PE-0805CD060KTT	6.5 @ 250MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	50 @ 1000MHz	5000	0.11	600
PE-0805CD7N5KTT	7.5 @ 250MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	50 @ 1000MHz	4500	0.14	600
PE-0805CD080KTT	7.9 @ 250MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	50 @ 1000MHz	4700	0.12	600
PE-0805CD100KTT	10.2 @ 250MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	50 @ 500MHz	4100	0.14	600
PE-0805CD120KTT	11.9 @ 250MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	50 @ 500MHz	4000	0.15	600
PE-0805CD150KTT	14.9 @ 250MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	50 @ 500MHz	3400	0.17	600
PE-0805CD180KTT	17.95 @ 250MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	50 @ 500MHz	3300	0.20	600
PE-0805CD220KTT	21.7 @ 250MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	55 @ 500MHz	2600	0.22	500
PE-0805CD240KTT	24 @ 250MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	50 @ 500MHz	2000	0.22	500
PE-0805CD270KTT	26.5 @ 250MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	55 @ 500MHz	2500	0.25	500
PE-0805CD330KTT	32.75 @ 250MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	60 @ 500MHz	2050	0.27	500
PE-0805CD360KTT	36 @ 250MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	55 @ 500MHz	1700	0.27	500
PE-0805CD390KTT	38.5 @ 250MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	60 @ 500MHz	2000	0.29	500
PE-0805CD430KTT	43 @ 200MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	60 @ 500MHz	1650	0.34	500
PE-0805CD470KTT	46.6 @ 200MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	60 @ 500MHz	1650	0.31	500
PE-0805CD560KTT	55.5 @ 200MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	60 @ 500MHz	1550	0.34	500
PE-0805CD680KTT	67.8 @ 200MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	60 @ 500MHz	1450	0.38	500
PE-0805CD820KTT	82.7 @ 150MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	60 @ 500MHz	1300	0.42	400
PE-0805CD910KTT	91 @ 150MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	65 @ 500MHz	1200	0.44	400
PE-0805CD101KTT	98.7 @ 150MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	60 @ 500MHz	1200	0.46	400
PE-0805CD111KTT	110 @ 150MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	50 @ 250MHz	1000	0.48	400
PE-0805CD121KTT	119.7 @ 150MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	50 @ 250MHz	1100	0.51	400
PE-0805CD151KTT	149.4 @ 100MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	50 @ 250MHz	920	0.56	400
PE-0805CD181KTT	179.6 @ 100MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	50 @ 250MHz	870	0.64	400
PE-0805CD221KTT	217 @ 100MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	45 @ 250MHz	850	0.70	400
PE-0805CD241KTT	240 @ 100MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	44 @ 250MHz	690	1.00	350
PE-0805CD271KTT	269 @ 100MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	45 @ 250MHz	650	1.00	350
PE-0805CD331KTT	331 @ 100MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	45 @ 250MHz	600	1.40	310
PE-0805CD391KTT	386 @ 100MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	35 @ 250MHz	560	1.50	290
PE-0805CD471KTT	477 @ 50MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	33 @ 100MHz	375	1.76	250
PE-0805CD561KTT	545 @ 25MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	23 @ 50MHz	340	1.90	230
PE-0805CD681KTT	674 @ 25MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	23 @ 50MHz	188	2.20	190
PE-0805CD821KTT	783 @ 25MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	23 @ 50MHz	215	2.35	180
PE-0805CD102KTT	1000 @ 25MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	20 @ 50MHz	200	3.60	150
PE-0805CD122KTT	1200 @ 25MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	20 @ 50MHz	200	4.10	120
PE-0805CD152KTT	1500 @ 25MHz	±10% (K)	±5% (J), ±2% (G), ±1% (F)	20 @ 50MHz	200	5.00	100

For other inductance values in 0805 size, please refer to 0805CM (page 12-13) and 0805FT (page 14-15).

NOTES:

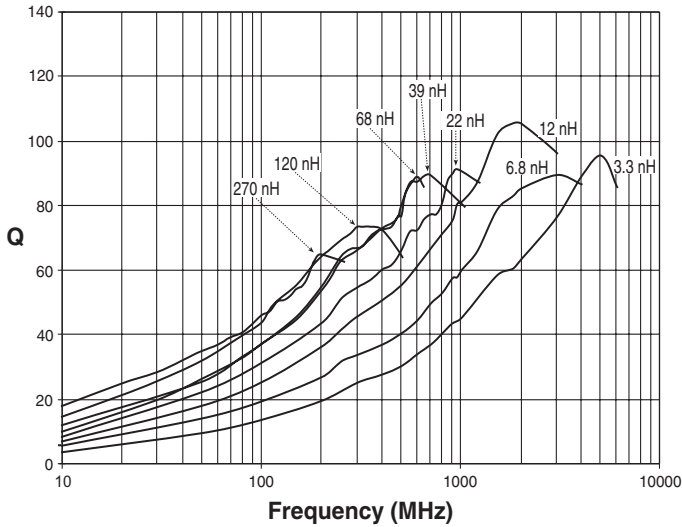
1. Inductance measured with HP4286A RF Impedance Analyzer.
2. Q measured using a HP4291A RF Impedance Analyzer with a HP16193A Test Fixture.
3. SRF measured using a HP8753C Network Analyzer.
4. R_{DC} measured using a Valhalla Scientific model 4100 ATC Digital Ohmmeter.
5. Based on a 15°C maximum temperature rise.
6. Sample Kit Part Number: **PE-0805CDKIT-T**

USA 858 674 8100 • Germany 49 7032 7806 0 • Singapore 65 6287 8998 • Shanghai 86 21 54643211 / 2 • China 86 755 33966678 • Taiwan 886 3 4641811

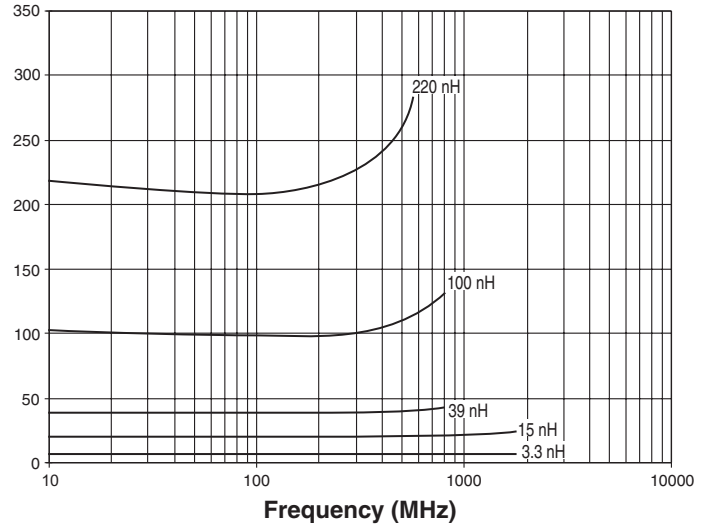
WIRE-WOUND RF CHIP INDUCTORS - 0805CD SERIES



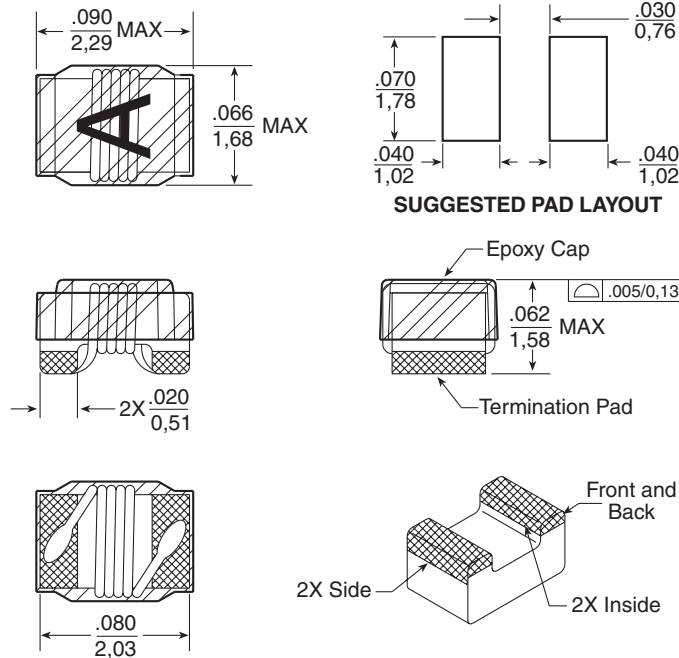
Typical Q vs Frequency



Typical Inductance vs Frequency



Mechanical



Weight 0.012 grams
Tape & Reel 2000/reel
Dimensions: $\frac{\text{Inches}}{\text{mm}}$
 Unless otherwise specified
 all tolerances are $\pm \frac{.010}{0,25}$