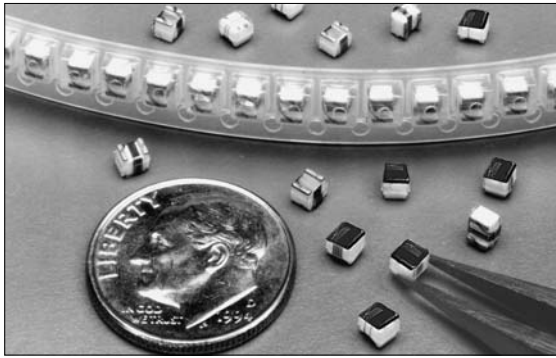







WIRE-WOUND RF CHIP INDUCTORS - 1008CM SERIES



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

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-1008CM040KTT	4.7 @ 50MHz	±10% (K)	±5% (J), ±2% (G)	60 @ 1500MHz	5500	0.05	1000
PE-1008CM080KTT	8.2 @ 50MHz	±10% (K)	±5% (J), ±2% (G)	60 @ 1500MHz	5500	0.05	1000
PE-1008CM100KTT	10 @ 50MHz	±10% (K)	±5% (J), ±2% (G)	50 @ 500MHz	4500	0.09	1000
PE-1008CM120KTT	12 @ 50MHz	±10% (K)	±5% (J), ±2% (G)	65 @ 500MHz	2300	0.09	1000
PE-1008CM150KTT	15 @ 50MHz	±10% (K)	±5% (J), ±2% (G)	55 @ 500MHz	1850	0.19	1000
PE-1008CM180KTT	18 @ 50MHz	±10% (K)	±5% (J), ±2% (G)	55 @ 350MHz	2200	0.06	1000
PE-1008CM220KTT	22 @ 50MHz	±10% (K)	±5% (J), ±2% (G)	55 @ 350MHz	1800	0.09	1000
PE-1008CM270KTT	27 @ 50MHz	±10% (K)	±5% (J), ±2% (G)	60 @ 350MHz	1500	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
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

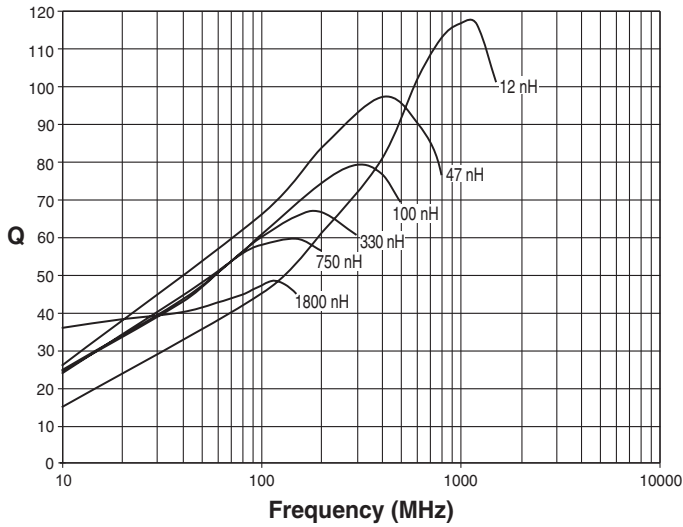
Notes:

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.

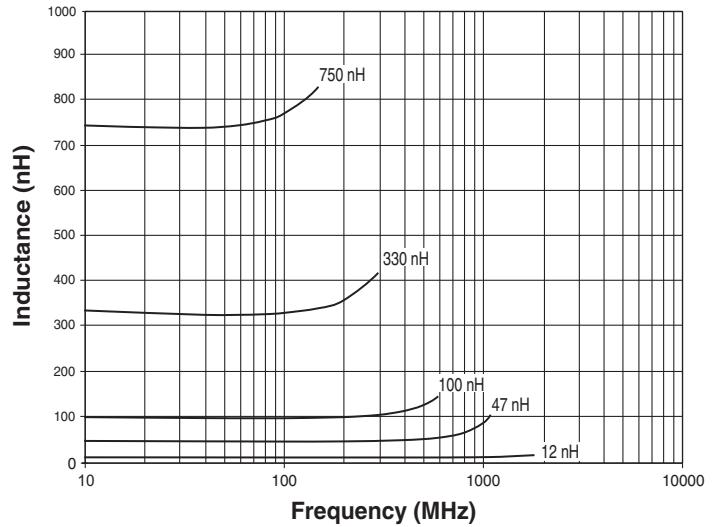
WIRE-WOUND RF CHIP INDUCTORS - 1008CM SERIES



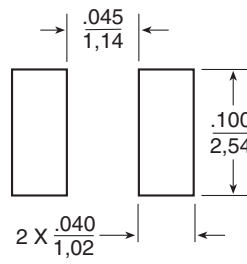
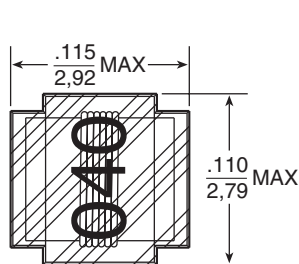
Typical Q vs Frequency



Typical Inductance vs Frequency



Mechanical



SUGGESTED PAD LAYOUT

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

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

