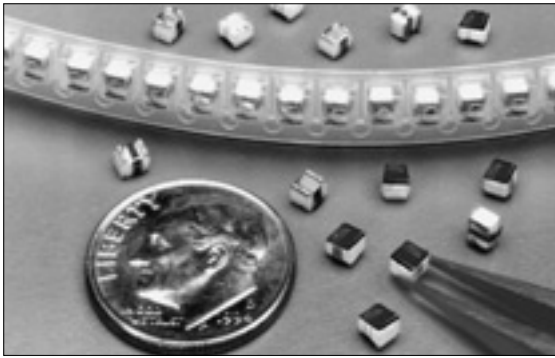


# WIRE-WOUND RF CHIP INDUCTORS - 1008CM SERIES



- ⊕ 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 <sup>1</sup> (nH)	Standard Tolerance	Optional Tolerances	Q <sup>2</sup> (MIN)	SRF Min <sup>3</sup> (MHz MIN)	R <sub>DC</sub> <sup>4</sup> (Ω MAX)	I <sub>DC</sub> <sup>5</sup> (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

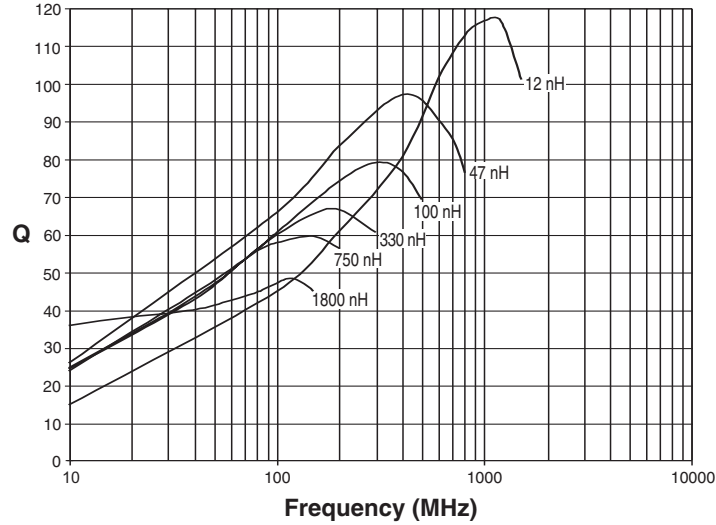
### Notes:

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<sub>DC</sub> 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.

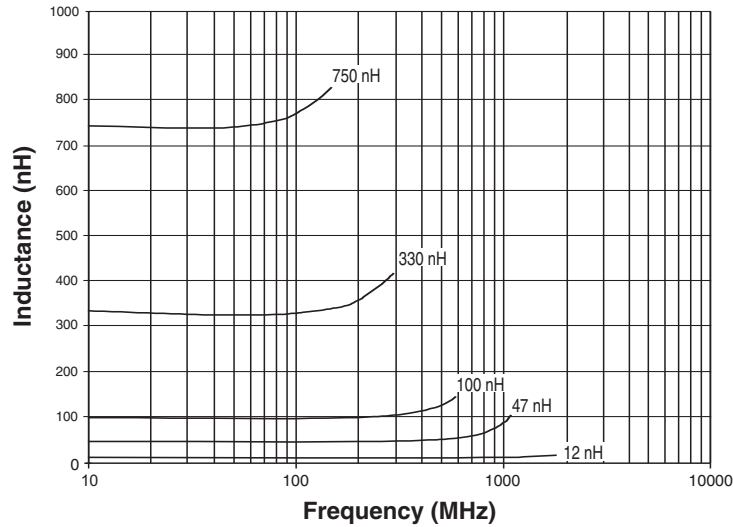
# WIRE-WOUND RF CHIP INDUCTORS - 1008CM SERIES



## Typical Q vs Frequency



## Typical Inductance vs Frequency



## Mechanical

