






WIRE-WOUND RF CHIP INDUCTORS - 0805CM 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

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-0805CM030KTT	3.3 @ 250MHz	±10% (K)	±5% (J), ±2% (G)	37 @ 1500MHz	5000	0.08	600
PE-0805CM060KTT	6.8 @ 250MHz	±10% (K)	±5% (J), ±2% (G)	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-0805CM560KTT	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

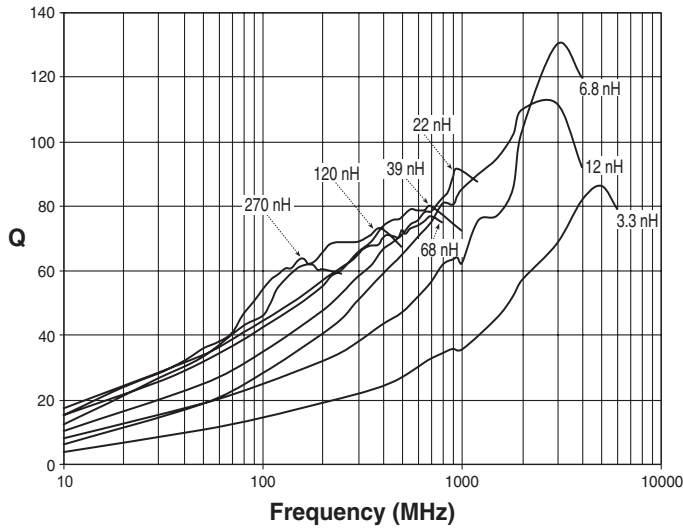
NOTES:

1. Inductance measured using a 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.

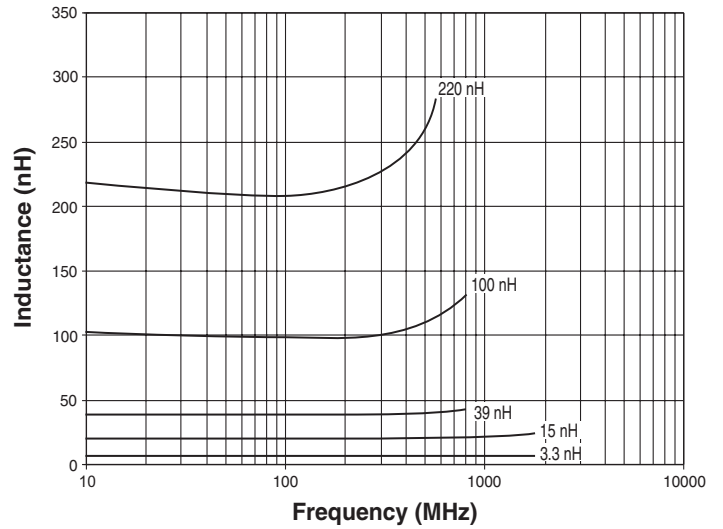
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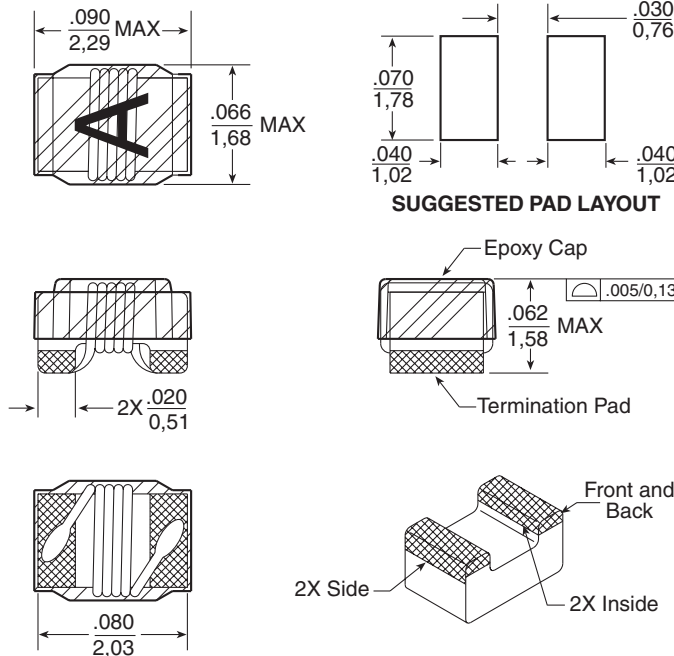
Typical Q vs Frequency



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 $\pm \frac{.010}{0.25}$