0805CX MINIATURE RF CHIP INDUCTORS

Designed for Wireless Products

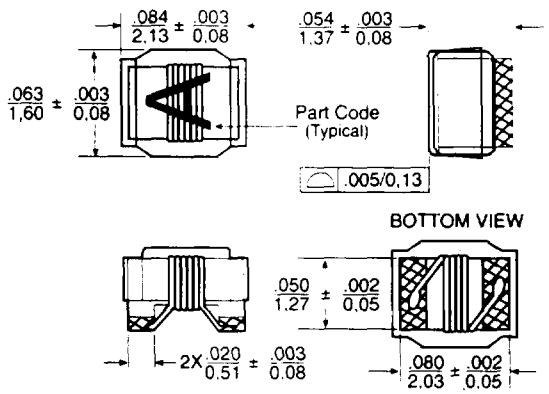
Pulse
A TECHNITROL COMPANY

- Wirewound ceramic core construction
- High Q values and self-resonant frequency
- Tin/lead or gold terminations
- Industry standard 0805 (2012) surface mount land pattern

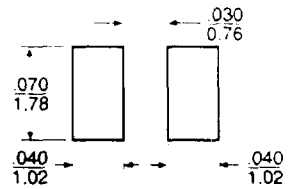
Electrical Specifications @ 25° C

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)	Part Code
PE-0805CX030KTT	3.3 @ 250 MHz	± 10% (K)	± 5% (J)	37 @ 1500 MHz	5000	0.060	600	A
PE-0805CX060KTT	6.8 @ 250 MHz	± 10% (K)	± 5% (J)	46 @ 1000 MHz	5000	0.150	600	B
PE-0805CX080KTT	8.2 @ 250 MHz	± 10% (K)	± 5% (J)	47 @ 1000 MHz	3900	0.130	600	C
PE-0805CX120KTT	12 @ 250 MHz	± 10% (K)	—	50 @ 500 MHz	2900	0.130	600	D
PE-0805CX150KTT	15 @ 250 MHz	± 10% (K)	± 5% (J)	50 @ 500 MHz	2700	0.150	600	E
PE-0805CX180KTT	18 @ 250 MHz	± 10% (K)	—	50 @ 500 MHz	2600	0.130	600	F
PE-0805CX220KTT	22 @ 250 MHz	± 10% (K)	± 5% (J)	55 @ 500 MHz	2200	0.130	500	G
PE-0805CX270KTT	27 @ 250 MHz	± 10% (K)	—	55 @ 500 MHz	2000	0.230	500	H
PE-0805CX330KTT	33 @ 250 MHz	± 10% (K)	± 5% (J)	58 @ 500 MHz	1800	0.180	500	J
PE-0805CX390KTT	39 @ 250 MHz	± 10% (K)	—	60 @ 500 MHz	1600	0.230	500	K
PE-0805CX470KTT	47 @ 200 MHz	± 10% (K)	± 5% (J)	60 @ 500 MHz	1650	0.250	500	L
PE-0805CX560KTT	56 @ 200 MHz	± 10% (K)	± 5% (J)	60 @ 500 MHz	1300	0.160	500	M
PE-0805CX680KTT	68 @ 200 MHz	± 10% (K)	± 5% (J)	60 @ 500 MHz	1350	0.180	500	N
PE-0805CX820KTT	82 @ 150 MHz	± 10% (K)	± 5% (J)	60 @ 500 MHz	1300	0.360	400	O
PE-0805CX101KTT	100 @ 150 MHz	± 10% (K)	± 5% (J)	55 @ 500 MHz	1100	0.360	400	P
PE-0805CX121KTT	120 @ 150 MHz	± 10% (K)	—	45 @ 250 MHz	1100	0.560	350	R
PE-0805CX151KTT	150 @ 100 MHz	± 10% (K)	± 5% (J)	50 @ 250 MHz	900	0.560	350	S
PE-0805CX181KTT	180 @ 100 MHz	± 10% (K)	—	50 @ 250 MHz	875	0.690	300	T
PE-0805CX221KTT	220 @ 100 MHz	± 10% (K)	± 5% (J)	45 @ 250 MHz	800	0.850	300	U
PE-0805CX271KTT	270 @ 100 MHz	± 10% (K)	± 5% (J)	40 @ 100 MHz	800	0.900	300	X
PE-0805CX331KTT	330 @ 100 MHz	± 10% (K)	± 5% (J)	40 @ 100 MHz	775	1.300	300	Y
PE-0805CX391KTT	390 @ 100 MHz	± 10% (K)	± 5% (J)	40 @ 100 MHz	725	1.700	300	A1
PE-0805CX471KTT	470 @ 100 MHz	± 10% (K)	± 5% (J)	38 @ 100 MHz	600	3.250	240	B1
PE-0805CX561KTT	560 @ 100 MHz	± 10% (K)	± 5% (J)	40 @ 100 MHz	600	3.100	240	C1
PE-0805CX681KTT	680 @ 50 MHz	± 10% (K)	± 5% (J)	32 @ 50 MHz	550	3.500	240	D1

Mechanical



Suggested SMD Pad Layout



Weight 0.012 grams
Tape & Reel 2000 reel
Dimensions: Inches / mm
Unless otherwise specified all tolerances are ± .010 / 0.25

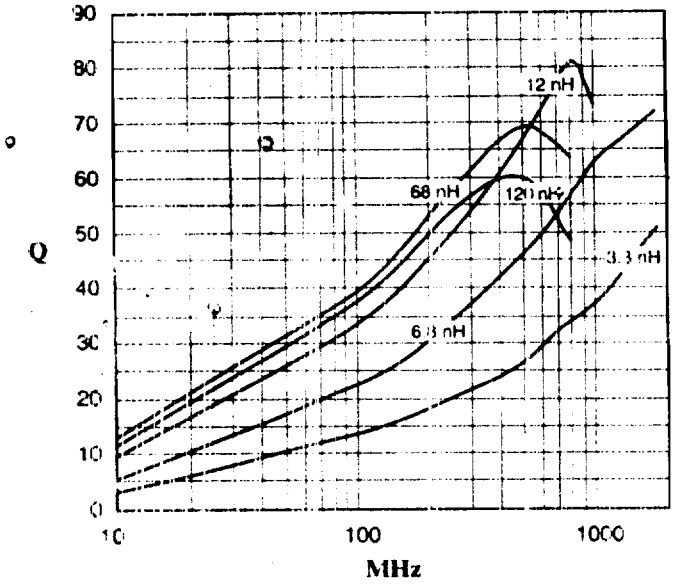
U.S.A.: TEL 619 674 8100 • EUROPE: TEL 441 483 428 877 • ASIA: TEL 886 7 821 3141 • WEB: http://www.pulseeng.com

0805CX MINIATURE RF CHIP INDUCTORS

Designed for Wireless Products

Pulse
A TECHNITROL COMPANY

Typical Q vs. Frequency



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. Sample Kit Part Number: PE-0805CXKIT.
7. S-parameters and Q & Inductance vs. Frequency information available on 3.5" disk. Please request **AN944-1**.

Part Number Legend

PE — 0805 C X 121 K T T

PACKAGE STYLE

CORE MATERIAL
C = Ceramic (Alumina)

PROFILE
X = Standard

INDUCTANCE (nH)
1st 2 digits are significant.
3rd digit is multiplier.

TOLERANCE
J = ±5%
K = ±10%
M = ±20%

PACKAGING
T = Tape & Reel (2000 Pieces/ 7" reel/8 mm wide tape/4 mm pitch)
B = Bulk/Partial Reel

TERMINATION
T = Tungsten/Nickel/Tin (60/40 Tin/Lead)
G = Tungsten/Nickel/Gold Flash

EXAMPLE: 0805 Size, Ceramic Core, Standard Height, 120 nH, 10% Tolerance, Tape & Reel, Tin/Lead Termination

For More Information :

Corporate	Europe	Asia	Distributor
12220 World Trade Drive San Diego, CA 92128 Tel: 619 674 8100 FAX: 619 674 8262 http://www.pulseeng.com Quick-Facts: 619 674 8672	Millpool House Mill Lane, Godalming Surrey GU7 1EY U.K. Tel: 441 483 428 877 FAX: 441 483 416 011	P.O. Box 26-11, KEPZ 6 Central Sixth Road KEPZ, Kaohsiung Taiwan, R.O.C Tel: 886 7 821 3141 FAX: 886 7 841 9707	