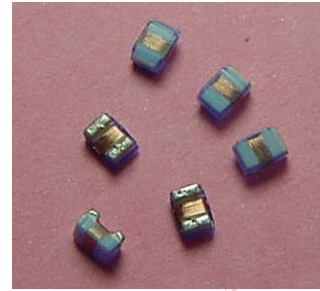


# Wire Wound Ceramic High Frequency Inductors

## Features

- High Q and high SRF
- Excellent solderability and resistance to soldering heat.
- Suitable for flow and reflow soldering.
- Good dimensions, high reliability, and easy surface mount assembly.
- Wide range of inductance value for flexible needs.



## Applications

- For high-frequency applications such as:  
Mobile phone, cordless phone, Pager

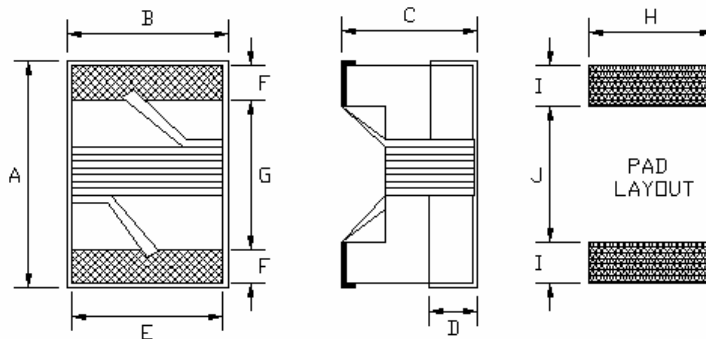
## Part Number Systems

**WHI - 0805 - 2N7 - K - LF**

(1)      (2)      (3) (4) (5)

(1)	Product series	(2)	Size
(3)	Inductance Value: 2N7 = 2.7nH	(4)	Inductance Tolerance: G = ± 2%, J = ± 5%, K = ± 10%, M = ± 20%
(5)	ROHs Compliant		

## Shape And Dimensions



Unit: mm

Type	A (Max)	B (Max)	C (Max)	D Ref.	E Ref.	F Ref.	G Ref.	H Ref.	I Ref.	J Ref.
0805	2.41	1.78	1.78	070	1.27	0.51	1.02	1.78	1.02	0.76

## Wire Wound Ceramic High Frequency Inductors

WHI-0805-Series				ELECTRICAL CHARACTERISTICS		
Part Number	Inductance (nH)	Tolerance	Q Min	SRF (MHz)	Rdc ( $\Omega$ )	Idc (mA)
				Min	Max	Max
WHI-0805-2N7J-LF	2.7 @ 250 MHz	J, K	80 @ 1500 MHz	7900	0.06	800
WHI-0805-3N0J-LF	3.0 @ 250 MHz	J, K	65 @ 1500 MHz	7900	0.06	800
WHI-0805-3N3J-LF	3.3 @ 250 MHz	J, K	50 @ 1500 MHz	7900	0.08	600
WHI-0805-5N6J-LF	5.6 @ 250 MHz	J, K	65 @ 1000 MHz	5500	0.08	600
WHI-0805-6N8J-LF	6.8 @ 250 MHz	J, K	50 @ 1000 MHz	5500	0.11	600
WHI-0805-7N5J-LF	7.5 @ 250 MHz	J, K	50 @ 1000 MHz	4500	0.14	600
WHI-0805-8N2J-LF	8.2 @ 250 MHz	G, J, K	50 @ 1000 MHz	4700	0.12	600
WHI-0805-10NJ-LF	10 @ 250 MHz	G, J, K	60 @ 500 MHz	4200	0.10	600
WHI-0805-12NJ-LF	12 @ 250 MHz	G, J, K	50 @ 500 MHz	4000	0.15	600
WHI-0805-15NJ-LF	15 @ 250 MHz	G, J, K	50 @ 500 MHz	3400	0.17	600
WHI-0805-18NJ-LF	18 @ 250 MHz	G, J, K	50 @ 500 MHz	3300	0.20	600
WHI-0805-22NJ-LF	22 @ 250 MHz	G, J, K	55 @ 500 MHz	2600	0.22	500
WHI-0805-24NJ-LF	24 @ 250 MHz	G, J, K	50 @ 500 MHz	2000	0.22	500
WHI-0805-27NJ-LF	27 @ 250 MHz	G, J, K	55 @ 500 MHz	2500	0.25	500
WHI-0805-33NJ-LF	33 @ 250 MHz	G, J, K	60 @ 500 MHz	2050	0.27	500
WHI-0805-36NJ-LF	36 @ 250 MHz	G, J, K	55 @ 500 MHz	1700	0.27	500
WHI-0805-39NJ-LF	39 @ 250 MHz	G, J, K	60 @ 500 MHz	2000	0.29	500
WHI-0805-43NJ-LF	43 @ 200 MHz	G, J, K	60 @ 500 MHz	1650	0.34	500
WHI-0805-47NJ-LF	47 @ 200 MHz	G, J, K	60 @ 500 MHz	1650	0.31	500
WHI-0805-56NJ-LF	56 @ 200 MHz	G, J, K	60 @ 500 MHz	1550	0.34	500
WHI-0805-68NJ-LF	68 @ 200 MHz	G, J, K	60 @ 500 MHz	1450	0.38	500
WHI-0805-82NJ-LF	82 @ 150 MHz	G, J, K	65 @ 500 MHz	1300	0.42	400
WHI-0805-91NJ-LF	91 @ 150 MHz	G, J, K	65 @ 500 MHz	1200	0.48	400
WHI-0805-R10J-LF	100 @ 150 MHz	G, J, K	65 @ 500 MHz	1200	0.46	400
WHI-0805-R11J-LF	110 @ 150 MHz	G, J, K	50 @ 250 MHz	1000	0.48	400
WHI-0805-R12J-LF	120 @ 150 MHz	G, J, K	50 @ 250 MHz	1100	0.51	400
WHI-0805-R15J-LF	150 @ 100 MHz	G, J, K	50 @ 250 MHz	920	0.56	400
WHI-0805-R18J-LF	180 @ 100 MHz	G, J, K	50 @ 250 MHz	870	0.64	400
WHI-0805-R22J-LF	220 @ 100 MHz	G, J, K	50 @ 250 MHz	850	0.70	400
WHI-0805-R24J-LF	240 @ 100 MHz	G, J, K	44 @ 250 MHz	690	1.0	350
WHI-0805-R27J-LF	270 @ 100 MHz	G, J, K	48 @ 250 MHz	650	1.0	350
WHI-0805-R33J-LF	330 @ 100 MHz	G, J, K	48 @ 250 MHz	600	1.4	310
WHI-0805-R39J-LF	390 @ 100 MHz	G, J, K	48 @ 250 MHz	560	1.5	290

# Wire Wound Ceramic High Frequency Inductors

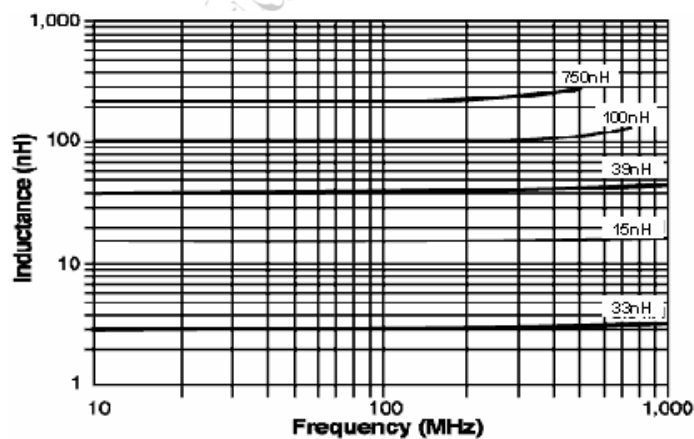
WHI-0805-Series			ELECTRICAL CHARACTERISTICS			
Part Number	Inductance (nH)	Tolerance	Q Min	SRF (MHz)	Rdc ( $\Omega$ )	Idc (mA)
				Min	Max	Max
WHI-0805-R47J-LF	470 @ 50 MHz	J, K	33 @ 100 MHz	375	1.76	250
WHI-0805-R56J-LF	560 @ 25 MHz	J, K	23 @ 50 MHz	340	1.90	230
WHI-0805-R68J-LF	680 @ 25 MHz	J, K	23 @ 50 MHz	188	2.20	190
WHI-0805-R82J-LF	820 @ 25 MHz	J, K	23 @ 50 MHz	215	2.35	180
WHI-0805-1R0J-LF	1000 @ 25 MHz	J, K	23 @ 50 MHz	282	6.90	92

\* All specifications are subjected to change without prior notice.

## Typical Electrical Characteristics

### ❖ WHI-0805-Series

Inductance Vs. Frequency Characteristics



Q Vs. Frequency Characteristics

