

HI 0603 Series

High Frequency Multilayer Chip Inductors

Features

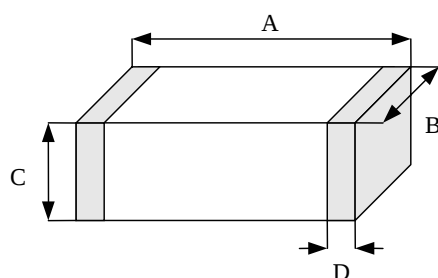
- ❖ Super fine and monolithic structure ensuring high performance and reliability.
- ❖ High frequency applications up to 6GHz.

Applications

- ❖ RF modules for telecommunication systems including GSM, PCS, DECT, WLAN, Bluetooth, etc.



Shape and Dimensions



Unit : mm (inch)

TYPE	EIA Code	A	B	C	D
0603	0201	0.60 ±0.03	0.30 ±0.03	0.30 ±0.03	0.15 ±0.05
		(.024 ±.001)	(.012 ±.001)	(.012 ±.001)	(.006 ±.002)

Part Number

HI 0603 - 1 C 2N2 □ N □
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧

① Type	HI : High Frequency Inductors	② Dimensions (L × W)	0.6 × 0.3 mm
③ Circuit	1 : Single	④ Material Code	C (lead-free)
⑤ Inductance	2N2=2.2nH 22N=22nH	⑥ Tolerance	S:±0.3nH, J:±5%, K:±10%
⑦ Marking	N: Without marking	⑧ Packaging	T: Tape & Reel B: Bulk

Advanced Ceramic X Corp.

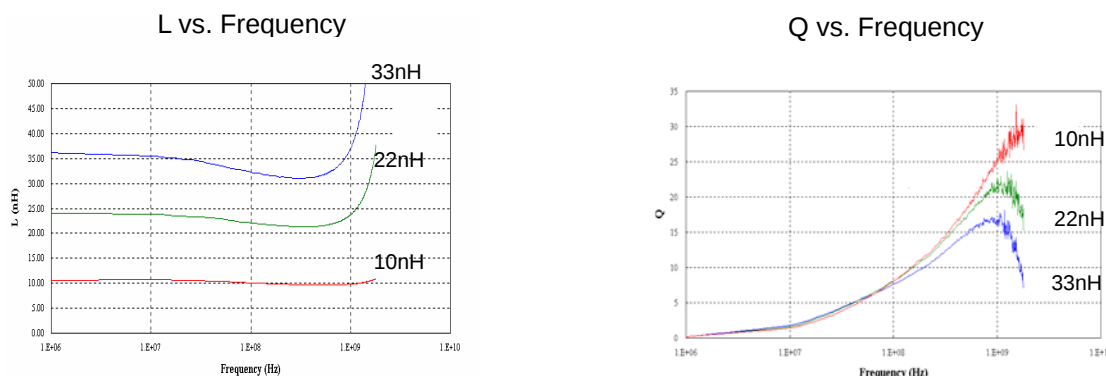
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Typical Electrical Characteristics



Specifications

Part Number	Inductance (nH)	Q Min.	Q Typ.	L/Q Freq. (MHz)	Q typical (MHz)			R _{DC} (Ω)		S.R.F. (MHz) Typ.	I _{DC} (mA) Max.
					500	800	1800	Max	Typ.		
HI0603-1C1N0_N_	1.0 ± 0.3	4	6	100	13	17	26	0.12	0.06	>13000	300
HI0603-1C1N2_N_	1.2 ± 0.3	4	6	100	14	17	26	0.15	0.10	>13000	300
HI0603-1C1N5_N_	1.5 ± 0.3	4	6	100	14	17	26	0.18	0.12	>13000	300
HI0603-1C1N8_N_	1.8 ± 0.3	4	6	100	15	17	28	0.22	0.14	10500	300
HI0603-1C2N2_N_	2.2 ± 0.3	4	6	100	15	18	28	0.26	0.15	9500	300
HI0603-1C2N7_N_	2.7 ± 0.3	4	6	100	16	18	28	0.32	0.17	8500	300
HI0603-1C3N3_N_	3.3 ± 0.3 or ± 10%	4	6	100	16	19	28	0.38	0.19	7500	300
HI0603-1C3N9_N_	3.9 ± 0.3 or ± 10%	4	6	100	16	20	26	0.45	0.23	6800	300
HI0603-1C4N7_N_	4.7 ± 0.3 or ± 10%	4	6	100	16	20	26	0.50	0.27	6000	300
HI0603-1C5N6_N_	5.6 ± 0.3 or ± 10%	5	7	100	16	20	25	0.60	0.29	5500	300
HI0603-1C6N8_N_	6.8 ± 5% or ± 10%	5	7	100	16	20	25	0.70	0.30	4800	250
HI0603-1C8N2_N_	8.2 ± 5% or ± 10%	5	7	100	16	20	23	0.90	0.52	4600	250
HI0603-1C10N_N_	10 ± 5% or ± 10%	5	7	100	16	20	23	1.20	0.58	4000	250
HI0603-1C12N_N_	12 ± 5% or ± 10%	5	7	100	16	19	22	1.30	0.60	3500	250
HI0603-1C15N_N_	15 ± 5% or ± 10%	5	7	100	15	19	18	1.40	0.70	3000	250
HI0603-1C18N_N_	18 ± 5% or ± 10%	5	7	100	15	19	16	1.50	0.80	2500	200
HI0603-1C22N_N_	22 ± 5% or ± 10%	5	8	100	14	18	15	1.80	1.00	2200	200
HI0603-1C27N_N_	27 ± 5% or ± 10%	5	8	100	13	18	9	2.00	1.16	1800	200
HI0603-1C33N_N_	33 ± 5% or ± 10%	5	8	100	13	17	7	2.30	1.50	1500	200
HI0603-1C39N_N_	39 ± 5% or ± 10%	5	8	100	14	16	-	2.50	1.60	1400	200

Operating Temperature Range : -40 ~ +100 °C

Storage Temperature Range : +5 ~ +35 °C, Humidity 45~75%RH

Storage Period: 12 months max.

Test Method : L and Q : HP 4291B (+16192A)
 S.R.F. (Self Resonant Frequency) : HP 8722D
 R_{DC} (DC Resistance) : HP 4338B
 I_{DC} (Rated Current) : HP 4284A

Notes

❖ The contents of this data sheet are subject to change without notice. Please confirm the specifications and delivery conditions when placing your order.