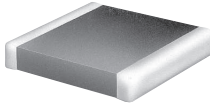


**Electrical / Environmental**

# BTC

Surface Mount Thin Film High Frequency Ceramic Chip Inductors  
0402 - 0603 Industry Sizes



**NEW**

**RoHS  
Compliant**

- Inductance Range 0.2nH to 100nH
- Operating Temperature Range -40°C to +125°C
- Resistance to Solder Heat 260°C for 10 sec.

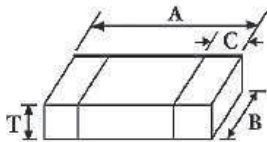
**0402 Specifications / Packaging**

Part Number	Inductance nH	Tolerance (% or nH)	Inductance Test Freq. MHz	Q Min. @ 500MHz	SRF GHz Min.	DC Resistance Ω Max.	Rated Current mA Max.	7" Reel Qty (Units)
BTC0402-0N2S	0.2	0.1/0.2/0.3nH	500	13	14	0.10	800	10k
BTC0402-0N4S	0.4	0.1/0.2/0.3nH	500	13	14	0.10	800	10k
BTC0402-0N8S	0.8	0.1/0.2/0.3nH	500	13	14	0.15	700	10k
BTC0402-1N0S	1.0	0.1/0.2/0.3nH	500	13	12	0.15	700	10k
BTC0402-1N2S	1.2	0.1/0.2/0.3nH	500	13	12	0.15	700	10k
BTC0402-1N5S	1.5	0.1/0.2/0.3nH	500	13	10	0.25	700	10k
BTC0402-1N6S	1.6	0.1/0.2/0.3nH	500	13	10	0.25	560	10k
BTC0402-1N8S	1.8	0.1/0.2/0.3nH	500	13	10	0.25	560	10k
BTC0402-2N0S	2.0	0.1/0.2/0.3nH	500	13	8	0.35	560	10k
BTC0402-2N2S	2.2	0.1/0.2/0.3nH	500	13	8	0.35	440	10k
BTC0402-2N7S	2.7	0.1/0.2/0.3nH	500	13	8	0.35	440	10k
BTC0402-3N1S	3.1	0.1/0.2/0.3nH	500	13	6	0.45	380	10k
BTC0402-3N3S	3.3	0.1/0.2/0.3nH	500	13	6	0.45	380	10k
BTC0402-3N6S	3.6	0.1/0.2/0.3nH	500	13	6	0.55	380	10k
BTC0402-3N9S	3.9	0.1/0.2/0.3nH	500	13	6	0.55	340	10k
BTC0402-4N7S	4.7	0.1/0.2/0.3nH	500	13	6	0.65	320	10k
BTC0402-5N6S	5.6	0.1/0.2/0.3nH	500	13	6	0.85	280	10k
BTC0402-5N9S	5.9	0.1/0.2/0.3nH	500	13	6	0.85	280	10k
BTC0402-6N8S	6.8	0.1/0.2/0.3nH	500	13	6	1.05	260	10k
BTC0402-7N2S	7.2	0.1/0.2/0.3nH	500	13	6	1.05	260	10k
BTC0402-8N0S	8.0	0.1/0.2/0.3nH	500	13	5.5	1.25	220	10k
BTC0402-8N2S	8.2	0.1/0.2/0.3nH	500	13	5.5	1.25	220	10k
BTC0402-9N1S	9.1	0.1/0.2/0.3nH	500	13	5.5	1.25	220	10k
BTC0402-10NJ	10	1/2/3/5%	500	13	4.5	1.35	200	10k
BTC0402-12NJ	12	1/2/3/5%	500	13	3.7	1.55	180	10k
BTC0402-13N8J	13.8	1/2/3/5%	500	13	3.7	1.75	180	10k
BTC0402-15NJ	15	1/2/3/5%	500	13	3.3	1.75	130	10k
BTC0402-17NJ	17	1/2/3/5%	500	13	3.1	1.95	100	10k
BTC0402-18NJ	18	1/2/3/5%	500	13	3.1	2.15	100	10k
BTC0402-20N8J	20.8	1/2/3/5%	500	13	2.8	2.55	90	10k
BTC0402-22NJ	22	1/2/3/5%	500	13	2.8	2.65	90	10k
BTC0402-27NJ	27	1/2/3/5%	500	13	2.5	3.25	75	10k
BTC0402-33NJ	33	5%	500	13	2.5	3.75	75	10k

### O603 Specifications / Packaging

Part Number	Inductance nH	Tolerance (% or nH)	Inductance Test Freq. MHz	Q Min. @ 300MHz	SRF GHz Min.	DC Resistance $\Omega$ Max.	Rated Current mA Max.	7" Reel Qty (Units)
BTC0603-1N0S	1.0	0.1/0.2/0.3nH	300	15	13	0.35	800	5k
BTC0603-1N2S	1.2	0.1/0.2/0.3nH	300	15	13	0.35	800	5k
BTC0603-1N5S	1.5	0.1/0.2/0.3nH	300	15	10	0.35	800	5k
BTC0603-1N8S	1.8	0.1/0.2/0.3nH	300	15	10	0.35	300	5k
BTC0603-2N2S	2.2	0.1/0.2/0.3nH	300	15	8	0.35	300	5k
BTC0603-2N7S	2.7	0.1/0.2/0.3nH	300	15	6	0.45	300	5k
BTC0603-3N3S	3.3	0.1/0.2/0.3nH	300	15	6	0.45	300	5k
BTC0603-3N9S	3.9	0.1/0.2/0.3nH	300	15	6	0.45	300	5k
BTC0603-4N7S	4.7	0.1/0.2/0.3nH	300	15	5	0.55	300	5k
BTC0603-5N6S	5.6	0.1/0.2/0.3nH	300	15	5	0.65	300	5k
BTC0603-6N8S	6.8	0.1/0.2/0.3nH	300	15	5	0.75	300	5k
BTC0603-8N2S	8.2	0.1/0.2/0.3nH	300	15	4	0.95	300	5k
BTC0603-10NJ	10	1/2/3/5%	300	15	4	0.95	300	5k
BTC0603-12NJ	12	1/2/3/5%	300	15	3	1.05	300	5k
BTC0603-15NJ	15	1/2/3/5%	300	15	3	1.35	300	5k
BTC0603-18NJ	18	1/2/3/5%	300	15	2	1.65	300	5k
BTC0603-22NJ	22	1/2/3/5%	300	15	2	1.95	250	5k
BTC0603-27NJ	27	1/2/3/5%	300	15	2	2.35	250	5k
BTC0603-33NJ	33	1/2/3/5%	300	15	1.5	2.75	250	5k
BTC0603-39NJ	39	1/2/3/5%	300	15	1.5	3.00	200	5k
BTC0603-47NJ	47	1/2/3/5%	300	15	1.5	3.00	200	5k
BTC0603-56NJ	56	1/2/3/5%	300	15	1	5.00	150	5k
BTC0603-68NJ	68	1/2/3/5%	300	15	1	5.00	150	5k
BTC0603-R10J	100	2/3/5%	300	15	1	7.50	100	5k

### Outline Dimensions (mm)



Part #	A Dim.	B Dim.	C Dim.	T Dim.
BTC0402 (1005)	1.0±0.05	0.5±0.05	0.2±0.10	0.32±0.05
BTC0603 (1608)	1.6±0.10	0.8±0.10	0.3±0.20	0.45±0.10

### Ordering Information

