Multi-Layer High Frequency Inductors HI Series

■Feature

1. For high frequency application
2. Tight tolerance physical dimensions
3. Tight Inductance tolerance, Excellent Q and Guaranteed SRF range

■Application

For high frequency application: cellular phone, WLAN, PHS, EMI countermeasure in high frequency circuits and computer communication etc.

■Ordering Code

HI 1005 1N5 S T

PRODUCT CODE

HI : High Frequency Inductor (Lead Free)

DIMENSION (L X W)

Code	Dimension	EIA
0603	0.6 X 0.3 mm	0201
1005	1.0 X 0.5 mm	0402
1608	1.6 X 0.8 mm	0603

INDUCTANCE CODE

Code	1N5	15N	R15
Inductance (nH)	1.5	15	150

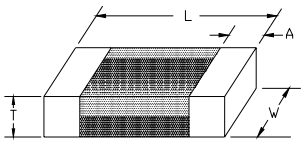
TOLERANCE CODE

D = ± 0.1 nH G = ± 2% K = ± 10%
C = ± 0.2 nH H= ± 3%
S = ± 0.3 nH J= ± 5%

PACKAGING CODE

T = Tape

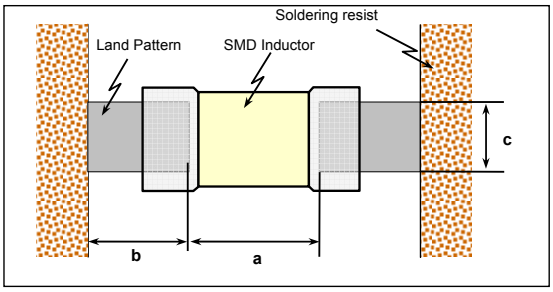
■Standard External Dimensions



Unit: mm/(inch)

Series	L	W	T	A (Min/Max)	Packing Quantity (pcs/reel)
					Paper Tape
HI0603 (0201)	0.60±0.03 (0.024±0.001)	0.30±0.03 (0.012±0.001)	0.30±0.03 (0.012±0.001)	0.10/0.20 (0.004/0.008)	15000
HI1005 (0402)	1.00±0.10 (0.040±0.004)	0.50±0.10 (0.020±0.004)	0.50±0.10 (0.020±0.004)	0.10/0.30 (0.004/0.012)	10000
HI1608 (0603)	1.60±0.15 (0.063±0.006)	0.80±0.15 (0.031±0.006)	0.80±0.15 (0.031±0.006)	0.20/0.60 (0.008/0.024)	4000

Recommended Pad Dimensions



Size mm (EIA)	L x W (mm)	a (mm)	b (mm)	c (mm)
0603 (0201)	0.6*0.3	0.15 to 0.35	0.2 to 0.3	0.25 to 0.3
1005 (0402)	1.0*0.5	0.3 to 0.5	0.35 to 0.45	0.4 to 0.5
1608 (0603)	1.6*0.8	0.7 to 1.0	0.6 to 0.8	0.7 to 0.8

■Available Inductance Value and Tolerance

Series (EIA)	Available Inductance	Range	Normal Tolerance	Available Tolerance for Customer Request
HI0603 (0201)	0.3 nH ~ 100nH	0.3 nH ~ 6.2 nH	S: ±0.3 nH	D: ±0.1 nH C: ±0.2 nH (0.3~4.2nH) H: ±3% (4.3~6.2 nH)
		6.8 nH ~ 27 nH	J: ±5%	H: ±3%
		33 nH ~ 100 nH	J: ±5%	
HI1005 (0402)	0.6 nH ~ 270 nH	0.6 nH ~ 6.2 nH	S: ±0.3 nH	C: ±0.2 nH D: ±0.1 nH
		6.8 nH ~ 82 nH	J: ±5%	H:±3% G: ±2%
		100 nH~270 nH	J: ±5%	
HI1608 (0603)	1.0 nH ~ 470 nH	1.0 nH ~5.6 nH	S: ±0.3 nH	C: ±0.2 nH D: ±0.1 nH
		6.8 nH ~ 470 nH	J: ±5%	G: ±2%

■Part Numbers & Characteristic HI Series

● HI0603 series (EIA 0201)

Electric Characteristic

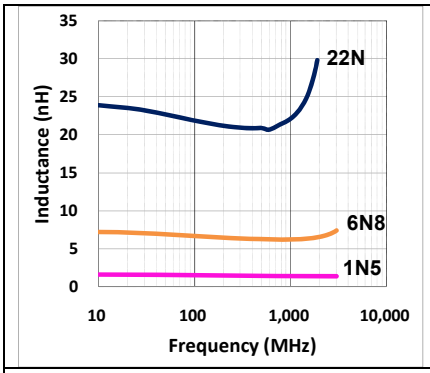
Ordering Code	Inductance (nH)	Available Tolerance	Q	L, Q Measureing Frequency	Self-Resonance Frequency (MHz)		DC Resistance (Ω)		Rated Current (mA)	Packing Amount of 7" reel
			Min.	(MHz)	Min.	typ.	Max.	typ.	Max.	Pcs
HI06030N3□T	0.3	±0.3nH, ±0.2nH, ±0.1nH	4	100	10,000	>13000	0.07	0.03	250	15,000
HI06030N4□T	0.4	±0.3nH, ±0.2nH, ±0.1nH	4	100	10,000	>13000	0.07	0.04	250	
HI06030N5□T	0.5	±0.3nH, ±0.2nH, ±0.1nH	4	100	10,000	>13000	0.08	0.05	250	
HI06030N6□T	0.6	±0.3nH, ±0.2nH, ±0.1nH	4	100	10,000	>13000	0.08	0.05	250	
HI06030N7□T	0.7	±0.3nH, ±0.2nH, ±0.1nH	4	100	10,000	>13000	0.09	0.06	250	
HI06030N8□T	0.8	±0.3nH, ±0.2nH, ±0.1nH	4	100	10,000	>13000	0.10	0.07	250	
HI06030N9□T	0.9	±0.3nH, ±0.2nH, ±0.1nH	4	100	10,000	>13000	0.10	0.07	250	
HI06031N0□T	1.0	±0.3nH, ±0.2nH, ±0.1nH	4	100	10,000	>13000	0.14	0.09	250	
HI06031N1□T	1.1	±0.3nH, ±0.2nH, ±0.1nH	4	100	10,000	>13000	0.14	0.09	250	
HI06031N2□T	1.2	±0.3nH, ±0.2nH, ±0.1nH	4	100	10,000	>13000	0.14	0.09	250	
HI06031N3□T	1.3	±0.3nH, ±0.2nH, ±0.1nH	4	100	10,000	>13000	0.14	0.10	250	
HI06031N5□T	1.5	±0.3nH, ±0.2nH, ±0.1nH	4	100	10,000	>13000	0.18	0.10	230	
HI06031N6□T	1.6	±0.3nH, ±0.2nH, ±0.1nH	4	100	10,000	>13000	0.18	0.12	230	
HI06031N8□T	1.8	±0.3nH, ±0.2nH, ±0.1nH	4	100	10,000	>13000	0.19	0.13	200	
HI06032N0□T	2.0	±0.3nH, ±0.2nH, ±0.1nH	4	100	8,800	>13000	0.20	0.14	200	
HI06032N1□T	2.1	±0.3nH, ±0.2nH, ±0.1nH	4	100	8,800	>13000	0.20	0.15	200	
HI06032N2□T	2.2	±0.3nH, ±0.2nH, ±0.1nH	4	100	8,800	>13000	0.22	0.15	200	
HI06032N4□T	2.4	±0.3nH, ±0.2nH, ±0.1nH	4	100	8,300	11,700	0.24	0.15	200	
HI06032N7□T	2.7	±0.3nH, ±0.2nH, ±0.1nH	5	100	7,700	11,340	0.25	0.17	200	
HI06033N0□T	3.0	±0.3nH, ±0.2nH, ±0.1nH	5	100	7,200	11,000	0.28	0.20	180	
HI06033N2□T	3.2	±0.3nH, ±0.2nH, ±0.1nH	5	100	6,700	10,800	0.30	0.20	180	
HI06033N3□T	3.3	±0.3nH, ±0.2nH, ±0.1nH	5	100	6,700	10,400	0.30	0.20	180	
HI06033N6□T	3.6	±0.3nH, ±0.2nH, ±0.1nH	5	100	6,400	9,000	0.30	0.23	170	
HI06033N9□T	3.9	±0.3nH, ±0.2nH, ±0.1nH	5	100	6,000	8,790	0.30	0.23	170	
HI06034N3□T	4.3	±0.3nH, ±3%, ±0.1nH	5	100	5,700	8,000	0.40	0.24	150	
HI06034N7□T	4.7	±0.3nH, ±3%, ±0.1nH	5	100	5,300	7,750	0.40	0.26	150	
HI06035N1□T	5.1	±0.3nH, ±3%, ±0.1nH	5	100	5,000	7,210	0.40	0.26	150	
HI06035N6□T	5.6	±0.3nH, ±3%, ±0.1nH	5	100	4,200	6,680	0.40	0.32	150	
HI06036N2□T	6.2	±0.3nH, ±3%, ±0.1nH	5	100	3,800	6,800	0.44	0.32	150	
HI06036N8□T	6.8	±5%, ±3%	5	100	3,500	6,800	0.50	0.34	150	
HI06037N5□T	7.5	±5%, ±3%	5	100	3,300	6,000	0.53	0.36	150	
HI06038N2□T	8.2	±5%, ±3%	5	100	3,200	5,800	0.55	0.38	150	
HI06039N1□T	9.1	±5%, ±3%	5	100	3,000	5,000	0.62	0.38	150	
HI060310N□T	10	±5%, ±3%	5	100	2,800	4,860	0.65	0.40	150	
HI060312N□T	12	±5%, ±3%	5	100	2,400	4,520	0.70	0.50	100	
HI060315N□T	15	±5%, ±3%	5	100	2,200	4,820	0.80	0.60	100	
HI060318N□T	18	±5%, ±3%	5	100	2,200	3,000	0.90	0.85	100	
HI060322N□T	22	±5%, ±3%	5	100	1,800	2,950	1.20	0.86	100	
HI060327N□T	27	±5%, ±3%	4	100	1,800	2,610	1.80	0.88	50	
HI060333N□T	33	±5%	4	100	1,700	2,210	2.10	1.05	50	
HI060339N□T	39	±5%	4	100	1,500	1,860	2.40	1.18	50	
HI060347N□T	47	±5%	4	100	1,300	1,800	2.80	1.74	100	
HI060356N□T	56	±5%	4	100	1,100	1,600	3.00	1.85	80	
HI060368N□T	68	±5%	4	100	1,100	1,500	2.66	2.30	80	
HI060382N□T	82	±5%	4	100	1,000	1,400	3.37	2.60	70	
HI0603R10□T	100	±5%	4	100	900	1,200	3.74	3.00	60	

※ □ Tolerance: D=±0.1nH, C=±0.2nH ,S=±0.3nH, G=±2%, H=±3%, J=±5%, K=±10%
※ Measuring Equipment: HP4287+16196C ※ Measuring Temperature: 25 +/- 3 ℃
※ Operating Temperature range: -55 ℃ to +125 ℃

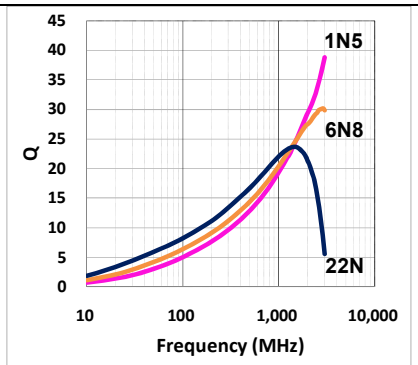
L,Q vs. Frequency Characteristics

Ordering Code	Typical Inductance(nH)							Typical Q						
	100 MHz	500 MHz	800 MHz	900 MHz	1.8 GHz	2.0 GHz	2.4 GHz	100 MHz	500 MHz	800 MHz	900 MHz	1.8 GHz	2.0 GHz	2.4 GHz
HI06030N3□T	0.3	0.3	0.3	0.3	0.3	0.3	0.3	6	14	19	20	32	35	39
HI06030N4□T	0.4	0.4	0.4	0.4	0.4	0.4	0.4	6	14	19	20	32	35	39
HI06030N5□T	0.5	0.5	0.5	0.5	0.5	0.5	0.5	6	14	19	20	33	36	40
HI06030N6□T	0.6	0.6	0.5	0.5	0.5	0.5	0.5	6	15	19	20	33	36	40
HI06030N7□T	0.7	0.7	0.6	0.6	0.6	0.6	0.6	6	15	20	21	34	37	41
HI06030N8□T	0.8	0.8	0.7	0.7	0.7	0.7	0.7	6	14	19	20	32	35	39
HI06030N9□T	0.9	0.8	0.8	0.8	0.8	0.8	0.8	6	15	20	21	35	37	42
HI06031N0□T	1.0	0.9	0.9	0.9	0.9	0.9	0.9	5	13	17	18	28	30	33
HI06031N1□T	1.1	1.0	1.0	1.0	0.9	0.9	0.9	6	14	18	20	30	32	34
HI06031N2□T	1.2	1.2	1.2	1.2	1.2	1.2	1.2	6	14	18	19	28	30	32
HI06031N3□T	1.3	1.2	1.2	1.2	1.2	1.2	1.2	6	13	17	18	27	28	31
HI06031N5□T	1.5	1.4	1.3	1.3	1.4	1.4	1.4	6	14	18	20	30	32	34
HI06031N6□T	1.6	1.6	1.6	1.6	1.6	1.6	1.6	6	14	18	20	28	30	31
HI06031N8□T	1.8	1.7	1.7	1.7	1.7	1.7	1.7	6	14	18	20	28	30	31
HI06032N0□T	2.0	1.9	1.9	1.9	2.0	1.9	2.0	6	14	18	19	28	29	31
HI06032N1□T	2.1	2.0	1.9	1.9	2.0	2.0	2.1	6	13	17	18	26	28	30
HI06032N2□T	2.2	2.1	2.0	2.0	2.1	2.1	2.2	6	13	17	18	26	28	30
HI06032N4□T	2.4	2.3	2.2	2.2	2.3	2.4	2.5	6	14	18	20	28	29	31
HI06032N7□T	2.7	2.5	2.5	2.5	2.6	2.7	2.8	6	14	18	19	28	29	31
HI06033N0□T	3.0	2.8	2.8	2.8	2.9	2.9	3.0	7	15	19	21	30	31	33
HI06033N2□T	3.2	3.0	3.0	3.0	3.1	3.1	3.2	6	14	19	20	29	30	32
HI06033N3□T	3.3	3.2	3.1	3.2	3.0	3.4	3.5	6	14	19	20	29	30	32
HI06033N6□T	3.6	3.4	3.4	3.4	3.7	3.7	3.9	6	14	18	20	28	29	31
HI06033N9□T	3.9	3.7	3.7	3.7	3.9	4.0	4.2	6	15	19	20	28	29	31
HI06034N3□T	4.3	4.1	4.1	4.1	4.4	4.9	4.8	6	14	18	19	27	28	29
HI06034N7□T	4.7	4.4	4.4	4.4	4.8	4.9	5.2	6	14	19	19	26	27	29
HI06035N1□T	5.1	4.9	4.9	4.9	5.4	5.6	6.0	6	13	17	18	25	25	26
HI06035N6□T	5.6	5.3	5.3	5.3	5.8	6.0	6.6	7	14	18	19	26	27	27
HI06036N2□T	6.2	6.0	6.0	6.1	6.9	7.2	8.1	6	14	18	19	26	26	30
HI06036N8□T	6.8	6.3	6.4	6.4	7.2	7.4	8.2	7	14	18	19	26	26	26
HI06037N5□T	7.5	7.1	7.2	7.2	8.3	8.7	9.8	6	15	18	20	25	25	25
HI06038N2□T	8.2	7.8	7.9	8.0	9.2	9.7	11.0	7	15	18	19	19	24	24
HI06039N1□T	9.1	8.7	8.8	8.9	10.8	11.6	13.9	6	13	16	17	21	20	18
HI060310N□T	10.0	9.3	9.5	9.6	12.0	13.0	16.1	6	13	16	17	20	20	18
HI060312N□T	12.0	11.3	11.5	11.7	15.4	17.2	23.2	7	13	16	17	18	17	14
HI060315N□T	15.0	14.5	15.1	15.4	22.4	26.2	42.3	7	15	18	19	19	17	11
HI060318N□T	18.0	17.2	18.1	18.6	31.1	39.5	99.3	7	13	16	16	14	11	5
HI060322N□T	22.0	21.4	22.8	23.5	45.5	64.1	-	7	13	16	16	12	8	-
HI060327N□T	27.0	26.6	29.2	30.6	108.5	-	-	6	13	15	15	6	-	-
HI060333N□T	33.0	31.9	34.8	36.0	119.0	-	-	7	14	16	17	6	-	-
HI060339N□T	39.0	38.2	42.3	45.6	-	-	-	6	12	13	13	-	-	-
HI060347N□T	47.0	44.0	47.0	49.0	-	-	-	6	11	12	11	-	-	-
HI060356N□T	56.0	54.0	61.0	66.0	-	-	-	6	11	11	10	-	-	-
HI060368N□T	68.0	66.0	76.0	82.0	-	-	-	6	11	11	10	-	-	-
HI060382N□T	82.0	80.0	97.0	108.0	-	-	-	6	11	10	8	-	-	-
HI0603R10□T	100.0	103.0	138.0	164.0	-	-	-	6	10	9	6	-	-	-

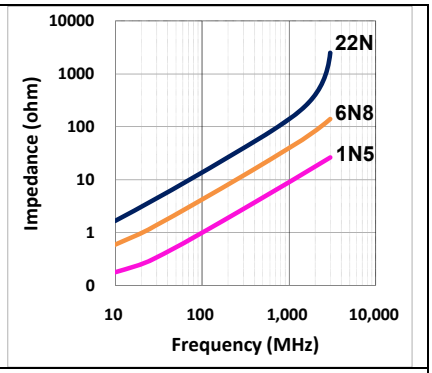
Typical Electrical Characteristic



0603 L vs Frequency



0603 Q vs Frequency



0603 Z vs Frequency

● HI1005 series (EIA 0402)

Electric Characteristic

Ordering Code	Inductance (nH)	Available Tolerance	Q	L, Q Measureing Frequency	Self-Resonance Frequency (MHz)		DC Resistance (Ω)		Rated Current (mA)	Packing Amount of 7" reel
			Min.	(MHz)	Min.	typ.	Max.	typ.	Max.	Pcs
HI10050N6□T	0.6	±0.3nH, ±0.2nH, ±0.1nH	8	100	10000	>13000	0.08	0.02	300	
HI10051N0□T	1.0	±0.3nH, ±0.2nH, ±0.1nH	8	100	10000	>13000	0.08	0.02	300	
HI10051N1□T	1.1	±0.3nH, ±0.2nH, ±0.1nH	8	100	10000	>13000	0.08	0.03	300	
HI10051N2□T	1.2	±0.3nH, ±0.2nH, ±0.1nH	8	100	10000	>13000	0.09	0.03	300	
HI10051N3□T	1.3	±0.3nH, ±0.2nH, ±0.1nH	8	100	10000	>13000	0.09	0.04	300	
HI10051N5□T	1.5	±0.3nH, ±0.2nH, ±0.1nH	8	100	10000	>13000	0.10	0.05	300	
HI10051N6□T	1.6	±0.3nH, ±0.2nH, ±0.1nH	8	100	10000	>13000	0.10	0.05	300	
HI10051N8□T	1.8	±0.3nH, ±0.2nH, ±0.1nH	8	100	6000	12220	0.12	0.05	300	
HI10052N0□T	2.0	±0.3nH, ±0.2nH, ±0.1nH	8	100	6000	12890	0.12	0.06	300	
HI10052N2□T	2.2	±0.3nH, ±0.2nH, ±0.1nH	8	100	6000	12430	0.13	0.06	300	
HI10052N4□T	2.4	±0.3nH, ±0.2nH, ±0.1nH	8	100	6000	12320	0.13	0.07	300	
HI10052N7□T	2.7	±0.3nH, ±0.2nH, ±0.1nH	8	100	6000	10070	0.16	0.09	300	
HI10053N0□T	3.0	±0.3nH, ±0.2nH, ±0.1nH	8	100	6000	8760	0.16	0.09	300	
HI10053N3□T	3.3	±0.3nH, ±0.2nH, ±0.1nH	8	100	6000	8120	0.16	0.09	300	
HI10053N6□T	3.6	±0.3nH, ±0.2nH, ±0.1nH	8	100	5000	8200	0.20	0.10	300	
HI10053N9□T	3.9	±0.3nH, ±0.2nH, ±0.1nH	8	100	4000	8390	0.20	0.10	300	
HI10054N3□T	4.3	±0.3nH, ±0.2nH, ±0.1nH	8	100	4000	7500	0.20	0.11	300	
HI10054N7□T	4.7	±0.3nH, ±0.2nH, ±0.1nH	8	100	4000	7010	0.20	0.11	300	
HI10055N1□T	5.1	±0.3nH, ±0.2nH, ±0.1nH	8	100	4000	6340	0.23	0.13	300	
HI10055N6□T	5.6	±0.3nH, ±0.2nH, ±0.1nH	8	100	4000	5760	0.23	0.13	300	
HI10056N2□T	6.2	±0.3nH, ±0.2nH, ±0.1nH	8	100	3900	5490	0.25	0.15	300	
HI10056N8□T	6.8	±5%,±3%, ±2%	8	100	3900	5430	0.25	0.14	300	10,000
HI10057N5□T	7.5	±5%,±3%, ±2%	8	100	3700	5000	0.28	0.16	300	
HI10058N2□T	8.2	±5%,±3%, ±2%	8	100	3500	4660	0.28	0.17	300	
HI10059N1□T	9.1	±5%,±3%, ±2%	8	100	3400	4400	0.30	0.22	300	
HI100510N□T	10	±5%,±3%, ±2%	8	100	3200	4120	0.31	0.24	300	
HI100512N□T	12	±5%,±3%, ±2%	8	100	2600	3820	0.45	0.30	300	
HI100515N□T	15	±5%,±3%, ±2%	8	100	2300	3350	0.55	0.38	300	
HI100518N□T	18	±5%,±3%, ±2%	8	100	2000	2970	0.65	0.37	300	
HI100522N□T	22	±5%,±3%, ±2%	8	100	1600	2640	0.70	0.45	300	
HI100527N□T	27	±5%,±3%, ±2%	8	100	1400	2370	0.80	0.49	300	
HI100533N□T	33	±5%,±3%, ±2%	8	100	1200	2040	0.90	0.63	200	
HI100539N□T	39	±5%,±3%, ±2%	8	100	1100	1800	1.00	0.70	200	
HI100547N□T	47	±5%,±3%, ±2%	8	100	900	1660	1.10	0.82	200	
HI100556N□T	56	±5%,±3%, ±2%	8	100	750	1560	1.10	0.84	200	
HI100568N□T	68	±5%,±3%, ±2%	8	100	750	1330	1.20	0.99	180	
HI100582N□T	82	±5%,±3%, ±2%	8	100	600	1160	1.30	1.09	150	
HI1005R10□T	100	±5%	8	100	600	1020	1.60	1.19	150	
HI1005R12□T	120	±5%	8	100	600	860	1.60	1.31	150	
HI1005R15□T	150	±5%	8	100	550	800	2.40	1.58	140	
HI1005R18□T	180	±5%	8	100	500	810	3.70	2.97	130	
HI1005R22□T	220	±5%	8	100	450	700	4.20	3.29	120	
HI1005R27□T	270	±5%	8	100	400	600	4.80	3.92	110	

※ □ Tolerance: D=±0.1nH, C=±0.2nH ,S=±0.3nH, G=±2%, H=±3%, J=±5%, K=±10%

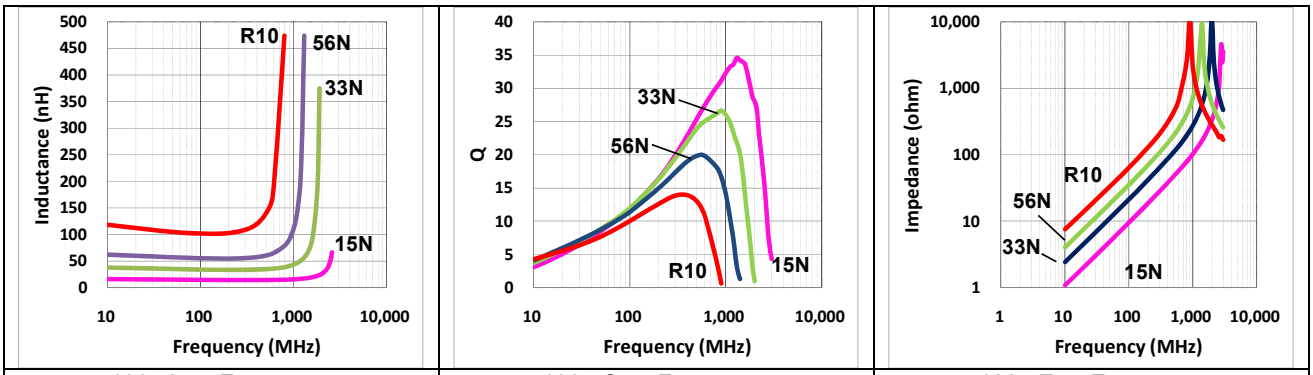
※ Measuring Equipment: HP4287+16193A ※ Measuring Temperature: 25 +/- 3 ℃

※ Operating Temperature range: -55 ℃ to +125 ℃

L,Q vs. Frequency Characteristics

Ordering Code	Typical Inductance(nH)							Typical Q						
	100 MHz	500 MHz	800 MHz	900 MHz	1.8 GHz	2.0 GHz	2.4 GHz	100 MHz	500 MHz	800 MHz	900 MHz	1.8 GHz	2.0 GHz	2.4 GHz
HI10050N6□T	0.6	0.6	0.6	0.6	0.6	0.6	0.6	12	40	60	65	100	120	140
HI10051N0□T	1.0	1.0	1.0	1.0	1.0	1.0	1.0	12	29	38	41	63	71	75
HI10051N1□T	1.1	1.1	1.1	1.1	1.1	1.1	1.1	11	29	37	40	60	67	72
HI10051N2□T	1.2	1.2	1.2	1.2	1.2	1.2	1.2	11	29	38	41	61	68	73
HI10051N3□T	1.3	1.3	1.3	1.3	1.3	1.3	1.3	11	30	38	41	61	67	72
HI10051N5□T	1.5	1.5	1.5	1.5	1.5	1.5	1.5	11	27	35	38	57	63	68
HI10051N6□T	1.6	1.5	1.5	1.5	1.5	1.5	1.5	11	28	35	38	57	64	68
HI10051N8□T	1.8	1.7	1.7	1.7	1.7	1.7	1.8	11	26	33	36	53	58	61
HI10052N0□T	2.0	2.0	2.0	2.0	2.0	2.1	2.1	10	23	29	31	45	49	52
HI10052N2□T	2.2	2.1	2.1	2.1	2.2	2.2	2.2	10	24	31	33	48	52	55
HI10052N4□T	2.4	2.3	2.3	2.3	2.4	2.4	2.4	10	25	31	34	49	53	57
HI10052N7□T	2.7	2.7	2.7	2.7	2.8	2.8	2.9	11	27	35	37	54	58	60
HI10053N0□T	3.0	2.9	2.9	3.0	3.1	3.1	3.2	10	25	32	34	49	53	55
HI10053N3□T	3.3	3.2	3.2	3.2	3.4	3.4	3.5	11	25	32	35	50	54	56
HI10053N6□T	3.6	3.5	3.5	3.5	3.7	3.8	3.9	10	24	31	33	46	49	49
HI10053N9□T	3.9	3.7	3.7	3.8	3.9	4.0	4.1	11	24	30	33	46	49	51
HI10054N3□T	4.3	4.1	4.2	4.2	4.4	4.4	4.6	11	26	33	35	50	53	54
HI10054N7□T	4.7	4.5	4.5	4.5	4.8	4.9	5.1	11	25	32	35	49	51	53
HI10055N1□T	5.1	4.9	4.9	4.9	5.2	5.3	5.6	11	25	32	35	46	48	49
HI10055N6□T	5.6	5.5	5.5	5.5	6.0	6.2	6.7	11	25	32	35	46	48	49
HI10056N2□T	6.2	6.1	6.1	6.1	6.7	6.8	7.3	11	26	32	34	46	48	49
HI10056N8□T	6.8	6.6	6.7	6.7	7.4	7.6	8.2	11	26	32	35	46	48	48
HI10057N5□T	7.5	7.1	7.2	7.3	7.8	8.1	8.8	11	26	32	35	46	48	48
HI10058N2□T	8.2	8.0	8.1	8.2	9.4	9.9	11.1	11	26	32	34	42	42	40
HI10059N1□T	9.1	8.7	8.8	8.8	9.9	10.2	11.1	11	25	31	34	42	42	40
HI100510N□T	10.0	10.0	9.8	9.9	11.7	12.4	14.4	11	23	29	31	37	37	34
HI100512N□T	12.0	11.7	12.0	12.2	15.1	16.3	20.1	11	24	31	33	37	36	30
HI100515N□T	15.0	14.9	15.5	15.8	22.8	26.4	41.8	11	23	30	32	35	33	28
HI100518N□T	18.0	17.8	18.4	18.7	24.9	27.7	37.7	11	23	28	29	30	28	22
HI100522N□T	22.0	21.8	23.1	23.8	40.9	52.7	156.0	11	22	27	28	22	18	6
HI100527N□T	27.0	27.1	29.2	30.3	66.8	106.9	-	11	22	26	27	16	11	4
HI100533N□T	33.0	33.2	36.3	37.9	109.0	259.0	-	11	22	25	26	12	5	-
HI100539N□T	39.0	40.2	45.9	49.1	-	-	-	11	20	22	22	-	-	-
HI100547N□T	47.0	49.1	57.2	61.7	-	-	-	11	20	21	21	-	-	-
HI100556N□T	56.0	59.2	71.8	79.3	-	-	-	11	19	19	18	-	-	-
HI100568N□T	68.0	74.7	99.4	116.3	-	-	-	11	18	17	15	-	-	-
HI100582N□T	82.0	94.7	140.8	179.5	-	-	-	11	18	15	12	-	-	-
HI1005R10□T	100.0	117.6	193.7	269.9	-	-	-	11	17	12	9	-	-	-
HI1005R12□T	120.0	159.8	450.4	-	-	-	-	11	16	7	-	-	-	-
HI1005R15□T	150.0	207.2	-	-	-	-	-	11	14	-	-	-	-	-
HI1005R18□T	180.0	-	-	-	-	-	-	12	-	-	-	-	-	-
HI1005R22□T	220.0	-	-	-	-	-	-	12	-	-	-	-	-	-
HI1005R27□T	270.0	-	-	-	-	-	-	12	-	-	-	-	-	-

Typical Electrical Characteristic



1005 L vs Frequency	1005 Q vs Frequency	1005 Z vs Frequency

● HI1608 series (EIA 0603)

Electric Characteristic

Ordering Code	Inductance (nH)	Available Tolerance	Q	L, Q Measureing Frequency	Self-Resonance Frequency (MHz)		DC Resistance (Ω)		Rated Current (mA)	Packing Amount of 7" reel
			Min.	(MHz)	Min.	typ.	Max.	typ.	Max.	Pcs
HI16081N0□T	1.0	**±0.3nH**, ±0.2nH, ±0.1nH	8	100	10000	>13000	0.05	0.01	1000	4,000
HI16081N2□T	1.2	**±0.3nH**, ±0.2nH, ±0.1nH	8	100	10000	>13000	0.05	0.02	1000	
HI16081N5□T	1.5	**±0.3nH**, ±0.2nH, ±0.1nH	8	100	10000	>13000	0.10	0.03	1000	
HI16081N8□T	1.8	**±0.3nH**, ±0.2nH, ±0.1nH	8	100	10000	>13000	0.10	0.04	1000	
HI16082N2□T	2.2	**±0.3nH**, ±0.2nH, ±0.1nH	8	100	6000	11690	0.10	0.05	1000	
HI16082N7□T	2.7	**±0.3nH**, ±0.2nH, ±0.1nH	10	100	6000	8930	0.13	0.06	1000	
HI16083N3□T	3.3	**±0.3nH**, ±0.2nH, ±0.1nH	10	100	6000	6440	0.13	0.07	1000	
HI16083N9□T	3.9	**±0.3nH**, ±0.2nH, ±0.1nH	10	100	6000	7280	0.15	0.08	1000	
HI16084N7□T	4.7	**±0.3nH**, ±0.2nH, ±0.1nH	10	100	4000	6470	0.20	0.09	1000	
HI16085N6□T	5.6	**±0.3nH**, ±0.2nH, ±0.1nH	10	100	4000	5230	0.23	0.10	600	
HI16086N8□T	6.8	**±5%**, ±2%	10	100	4000	5470	0.25	0.11	600	
HI16088N2□T	8.2	**±5%**, ±2%	10	100	3500	4460	0.28	0.14	600	
HI160810N□T	10	**±5%**, ±2%	12	100	3200	4360	0.30	0.15	600	
HI160812N□T	12	**±5%**, ±2%	12	100	2600	3480	0.35	0.17	600	
HI160815N□T	15	**±5%**, ±2%	12	100	2300	3310	0.40	0.19	600	
HI160818N□T	18	**±5%**, ±2%	12	100	2000	3080	0.45	0.21	600	
HI160822N□T	22	**±5%**, ±2%	12	100	1600	2670	0.50	0.29	600	
HI160827N□T	27	**±5%**, ±2%	12	100	1400	2270	0.55	0.27	600	
HI160833N□T	33	**±5%**, ±2%	12	100	1200	1970	0.60	0.36	600	
HI160839N□T	39	**±5%**, ±2%	12	100	1100	1830	0.65	0.37	500	
HI160847N□T	47	**±5%**, ±2%	12	100	900	1670	0.70	0.47	500	
HI160856N□T	56	**±5%**, ±2%	12	100	900	1530	0.75	0.46	500	
HI160868N□T	68	**±5%**, ±2%	12	100	700	1360	0.85	0.51	400	
HI160882N□T	82	**±5%**, ±2%	12	100	600	1290	0.95	0.57	300	
HI1608R10□T	100	**±5%**, ±2%	12	100	600	1090	1.00	0.69	300	
HI1608R12□T	120	**±5%**, ±2%	8	50	500	1030	1.20	0.74	300	
HI1608R15□T	150	**±5%**, ±2%	8	50	500	820	1.20	0.78	300	
HI1608R18□T	180	**±5%**, ±2%	8	50	400	690	1.30	0.92	300	
HI1608R22□T	220	**±5%**, ±2%	8	50	400	630	1.50	1.19	300	
HI1608R24□T	240	**±5%**, ±2%	8	50	400	600	1.70	1.20	200	
HI1608R27□T	270	**±5%**, ±2%	8	50	400	520	1.90	1.30	150	
HI1608R33□T	330	**±5%**, ±2%	8	50	350	450	2.10	1.50	150	
HI1608R39□T	390	**±5%**, ±2%	8	50	350	400	2.30	1.80	150	
HI1608R47□T	470	**±5%**, ±2%	8	50	300	360	2.60	2.04	150	

※ □ Tolerance: D=±0.1nH, C=±0.2nH ,S=±0.3nH, G=±2%, J=±5%, K=±10%

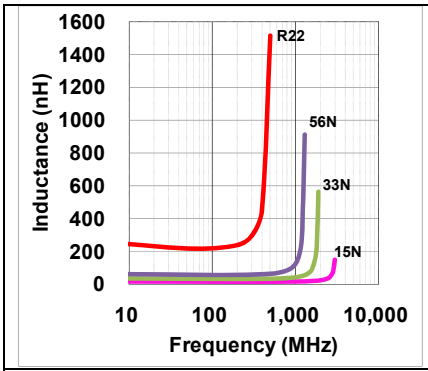
※ Measuring Equipment: HP4291B+16192A ※ Measuring Temperature: 25 +/- 3 ℃

※ Operating Temperature range: -40 ℃ to +85 ℃

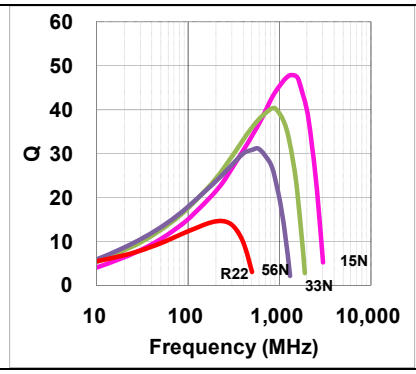
L,Q vs. Frequency Characteristics

Ordering Code	Typical Inductance(nH)							Typical Q						
	100MH	500MH	800MH	900MH	1.8GHz	2.0GHz	2.4GHz	100MH	500MH	800MH	900MH	1.8GHz	2.0GHz	2.4GHz
HI16081N0□T	1.0	1.1	1.1	1.1	1.1	1.1	1.0	14	40	53	60	93	32	174
HI16081N2□T	1.2	1.2	1.2	1.2	1.2	1.2	1.1	14	38	49	54	84	32	143
HI16081N5□T	1.5	1.6	1.6	1.6	1.6	1.5	1.5	12	31	39	43	62	33	88
HI16081N8□T	1.8	1.8	1.8	1.8	1.8	1.8	1.7	13	34	42	46	68	37	97
HI16082N2□T	2.2	2.2	2.2	2.2	2.2	2.2	2.2	14	36	46	50	73	42	101
HI16082N7□T	2.7	2.7	2.7	2.7	2.7	2.7	2.7	14	36	47	45	72	45	94
HI16083N3□T	3.3	3.3	3.3	3.3	3.5	3.5	3.6	14	37	47	50	67	47	77
HI16083N9□T	3.9	3.9	3.9	3.9	4.0	4.0	4.1	15	36	46	49	66	48	81
HI16084N7□T	4.7	4.6	4.6	4.7	4.9	4.9	5.1	15	39	50	53	70	53	80
HI16085N6□T	5.6	5.5	5.6	5.6	6.1	6.3	6.7	15	39	50	54	67	52	69
HI16086N8□T	6.8	6.7	6.7	6.8	7.3	7.5	7.9	15	38	49	52	66	53	66
HI16088N2□T	8.2	8.1	8.2	8.3	9.5	9.9	11.0	16	37	48	50	59	49	54
HI160810N□T	10.0	9.9	10.1	10.2	11.7	12.3	13.9	16	39	49	52	60	50	52
HI160812N□T	12.0	12.2	12.6	12.8	16.6	18.4	24.4	16	36	46	48	47	39	31
HI160815N□T	15.0	15.1	15.6	15.9	21.0	23.4	31.9	17	40	50	52	49	41	31
HI160818N□T	18.0	18.1	18.9	19.3	27.7	32.2	52.2	17	39	48	50	43	35	21
HI160822N□T	22.0	22.3	23.8	24.6	45.7	63.5	521.1	17	39	46	47	29	19	1
HI160827N□T	27.0	27.8	30.3	31.6	85.8	191.2	-	18	39	45	46	19	8	-
HI160833N□T	33.0	34.9	38.8	40.9	-	-	-	18	39	43	43	-	-	-
HI160839N□T	39.0	41.3	47.7	51.2	-	-	-	19	36	39	37	-	-	-
HI160847N□T	47.0	50.0	58.9	64.0	-	-	-	17	34	36	34	-	-	-
HI160856N□T	56.0	62.0	77.7	87.5	-	-	-	19	35	34	31	-	-	-
HI160868N□T	68.0	76.8	103.2	121.7	-	-	-	18	33	29	25	-	-	-
HI160882N□T	82.0	96.5	145.3	187.2	-	-	-	19	32	25	20	-	-	-
HI1608R10□T	100.0	123.7	222.4	343.5	-	-	-	18	30	19	12	-	-	-
HI1608R12□T	120.0	156.0	355.0	-	-	-	-	19	28	14	-	-	-	-
HI1608R15□T	150.0	227.9	-	-	-	-	-	18	21	-	-	-	-	-
HI1608R18□T	180.0	336.8	-	-	-	-	-	17	17	-	-	-	-	-
HI1608R22□T	220.0	520.7	-	-	-	-	-	16	13	-	-	-	-	-
HI1608R24□T	240.0							16						
HI1608R27□T	270.0	-	-	-	-	-	-	16	-	-	-	-	-	-
HI1608R33□T	330.0	-	-	-	-	-	-	14	-	-	-	-	-	-
HI1608R39□T	390.0	-	-	-	-	-	-	14	-	-	-	-	-	-
HI1608R47□T	470.0	-	-	-	-	-	-	13	-	-	-	-	-	-

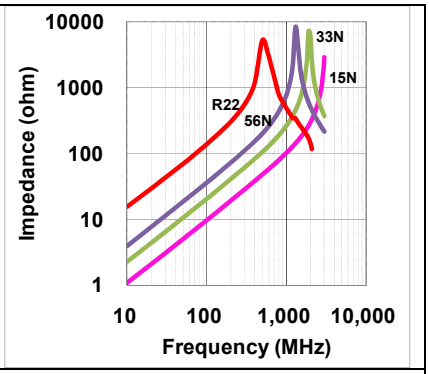
Typical Electrical Characteristic



1608 L vs Frequency



1608 Q vs Frequency



1608 Z vs Frequency