

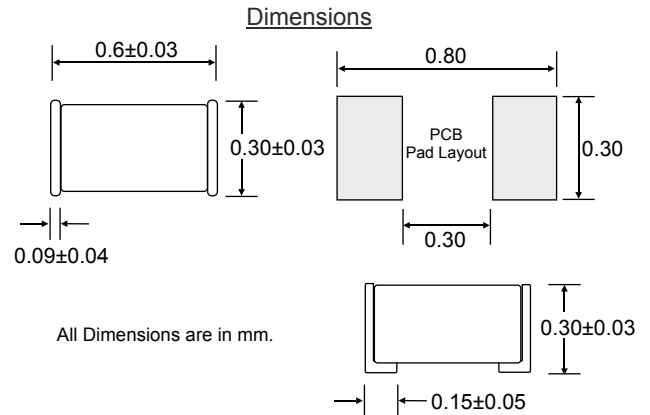


# High Frequency Ceramic Inductors TLNMH0603P Series



## Features

- High Q inductors for high frequency applications
- Multilayer Ceramic
- Optimal configuration for improved Q to 800MHz or higher
- 0.1nH step inductance values
- Used in Mobile communications, Wireless LAN, Tuners  
Smart phones, Tablets and other high frequency modules.
- Operating Temperature: -55°C to +125°C
- Storage Temperature: -55°C to +125°C
- Halogen-free & RoHs compliant



- Packaging Type: Tape & Reel (Ø180mm±2.0)
- Packaging Quantity: 15,000pcs/reel
- Product Weight: 0.2mg

## Electrical Characteristics @20°C

Part Number	Inductance (nH)	Tolerance	Q (Min.)	Test Freq. (MHz)	SRF GHz(Min.)	SRF GHz(Typ.)	DCR Ω(Max.)	DCR Ω(Typ.)	Rated Current mA(Max.)
TLNMH0603P0N6BT	0.6	±0.1nH	---	500	10	20	0.06	0.01	1000
TLNMH0603P0N6CT	0.6	±0.2nH	---	500	10	20	0.06	0.01	1000
TLNMH0603P0N7BT	0.7	±0.1nH	---	500	10	20	0.06	0.01	1000
TLNMH0603P0N7CT	0.7	±0.2nH	---	500	10	20	0.06	0.01	1000
TLNMH0603P0N8BT	0.8	±0.1nH	---	500	10	20	0.06	0.02	1000
TLNMH0603P0N8CT	0.8	±0.2nH	---	500	10	20	0.06	0.02	1000
TLNMH0603P0N9BT	0.9	±0.1nH	---	500	10	20	0.06	0.02	1000
TLNMH0603P0N9CT	0.9	±0.2nH	---	500	10	20	0.06	0.02	1000
TLNMH0603P1N0ST	1	±0.3nH	14	500	10	20	0.07	0.02	1000
TLNMH0603P1N0BT	1	±0.1nH	14	500	10	20	0.07	0.02	1000
TLNMH0603P1N0CT	1	±0.2nH	14	500	10	20	0.07	0.02	1000
TLNMH0603P1N1ST	1.1	±0.3nH	14	500	10	19.9	0.07	0.03	1000
TLNMH0603P1N1BT	1.1	±0.1nH	14	500	10	19.9	0.07	0.03	1000
TLNMH0603P1N1CT	1.1	±0.2nH	14	500	10	19.9	0.07	0.03	1000
TLNMH0603P1N2ST	1.2	±0.3nH	14	500	10	16	0.08	0.04	800
TLNMH0603P1N2BT	1.2	±0.1nH	14	500	10	16	0.08	0.04	800
TLNMH0603P1N2CT	1.2	±0.2nH	14	500	10	16	0.08	0.04	800
TLNMH0603P1N3ST	1.3	±0.3nH	14	500	10	13.9	0.08	0.03	800
TLNMH0603P1N3BT	1.3	±0.1nH	14	500	10	13.9	0.08	0.03	800
TLNMH0603P1N3CT	1.3	±0.2nH	14	500	10	13.9	0.08	0.03	800
TLNMH0603P1N4ST	1.4	±0.3nH	14	500	10	11.7	0.09	0.04	800
TLNMH0603P1N4BT	1.4	±0.1nH	14	500	10	11.7	0.09	0.04	800
TLNMH0603P1N4CT	1.4	±0.2nH	14	500	10	11.7	0.09	0.04	800
TLNMH0603P1N5ST	1.5	±0.3nH	14	500	10	14.9	0.1	0.03	800
TLNMH0603P1N5BT	1.5	±0.1nH	14	500	10	14.9	0.1	0.03	800
TLNMH0603P1N5CT	1.5	±0.2nH	14	500	10	14.9	0.1	0.03	800
TLNMH0603P1N6ST	1.6	±0.3nH	14	500	10	13.4	0.1	0.03	700
TLNMH0603P1N6BT	1.6	±0.1nH	14	500	10	13.4	0.1	0.03	700
TLNMH0603P1N6CT	1.6	±0.2nH	14	500	10	13.4	0.1	0.03	700
TLNMH0603P1N7ST	1.7	±0.3nH	14	500	10	12.8	0.1	0.02	700
TLNMH0603P1N7BT	1.7	±0.1nH	14	500	10	12.8	0.1	0.02	700
TLNMH0603P1N7CT	1.7	±0.2nH	14	500	10	12.8	0.1	0.02	700

**Electrical Characteristics @20°C**

Part Number	Inductance (nH)	Tolerance	Q (Min.)	Test Freq. (MHz)	SRF GHz(Min.)	SRF GHz(Typ.)	DCR $\Omega$ (Max.)	DCR $\Omega$ (Typ.)	Rated Current mA(Max.)
TLNMH0603P1N8ST	1.8	±0.3nH	14	500	9	10.7	0.1	0.03	700
TLNMH0603P1N8BT	1.8	±0.1nH	14	500	9	10.7	0.1	0.03	700
TLNMH0603P1N8CT	1.8	±0.2nH	14	500	9	10.7	0.1	0.03	700
TLNMH0603P1N9ST	1.9	±0.3nH	14	500	9	10.9	0.1	0.04	600
TLNMH0603P1N9BT	1.9	±0.1nH	14	500	9	10.9	0.1	0.04	600
TLNMH0603P1N9CT	1.9	±0.2nH	14	500	9	10.9	0.1	0.04	600
TLNMH0603P2N0ST	2	±0.3nH	14	500	8.5	10.1	0.1	0.03	600
TLNMH0603P2N0BT	2	±0.1nH	14	500	8.5	10.1	0.1	0.03	600
TLNMH0603P2N0CT	2	±0.2nH	14	500	8.5	10.1	0.1	0.03	600
TLNMH0603P2N1ST	2.1	±0.3nH	14	500	8	9.8	0.1	0.05	600
TLNMH0603P2N1BT	2.1	±0.1nH	14	500	8	9.8	0.1	0.05	600
TLNMH0603P2N1CT	2.1	±0.2nH	14	500	8	9.8	0.1	0.05	600
TLNMH0603P2N2ST	2.2	±0.3nH	14	500	7.5	9	0.1	0.07	600
TLNMH0603P2N2BT	2.2	±0.1nH	14	500	7.5	9	0.1	0.07	600
TLNMH0603P2N2CT	2.2	±0.2nH	14	500	7.5	9	0.1	0.07	600
TLNMH0603P2N3ST	2.3	±0.3nH	14	500	7.5	8.4	0.2	0.07	600
TLNMH0603P2N3BT	2.3	±0.1nH	14	500	7.5	8.4	0.2	0.07	600
TLNMH0603P2N3CT	2.3	±0.2nH	14	500	7.5	8.4	0.2	0.07	600
TLNMH0603P2N4ST	2.4	±0.3nH	14	500	7.5	10.9	0.2	0.12	500
TLNMH0603P2N4BT	2.4	±0.1nH	14	500	7.5	10.9	0.2	0.12	500
TLNMH0603P2N4CT	2.4	±0.2nH	14	500	7.5	10.9	0.2	0.12	500
TLNMH0603P2N5ST	2.5	±0.3nH	14	500	7.5	9.9	0.2	0.09	500
TLNMH0603P2N5BT	2.5	±0.1nH	14	500	7.5	9.9	0.2	0.09	500
TLNMH0603P2N5CT	2.5	±0.2nH	14	500	7.5	9.9	0.2	0.09	500
TLNMH0603P2N6ST	2.6	±0.3nH	14	500	7.5	10.1	0.2	0.14	500
TLNMH0603P2N6BT	2.6	±0.1nH	14	500	7.5	10.1	0.2	0.14	500
TLNMH0603P2N6CT	2.6	±0.2nH	14	500	7.5	10.1	0.2	0.14	500
TLNMH0603P2N7ST	2.7	±0.3nH	14	500	7.5	10	0.2	0.14	500
TLNMH0603P2N7BT	2.7	±0.1nH	14	500	7.5	10	0.2	0.14	500
TLNMH0603P2N7CT	2.7	±0.2nH	14	500	7.5	10	0.2	0.14	500
TLNMH0603P2N8ST	2.8	±0.3nH	14	500	7.5	9.9	0.2	0.1	500
TLNMH0603P2N8BT	2.8	±0.1nH	14	500	7.5	9.9	0.2	0.1	500
TLNMH0603P2N8CT	2.8	±0.2nH	14	500	7.5	9.9	0.2	0.1	500
TLNMH0603P2N9ST	2.9	±0.3nH	14	500	7.5	9.2	0.2	0.1	500
TLNMH0603P2N9BT	2.9	±0.1nH	14	500	7.5	9.2	0.2	0.1	500
TLNMH0603P2N9CT	2.9	±0.2nH	14	500	7.5	9.2	0.2	0.1	500
TLNMH0603P3N0ST	3	±0.3nH	14	500	7.5	9.1	0.2	0.14	450
TLNMH0603P3N0BT	3	±0.1nH	14	500	7.5	9.1	0.2	0.14	450
TLNMH0603P3N0CT	3	±0.2nH	14	500	7.5	9.1	0.2	0.14	450
TLNMH0603P3N1ST	3.1	±0.3nH	14	500	7.5	8.8	0.2	0.1	450
TLNMH0603P3N1BT	3.1	±0.1nH	14	500	7.5	8.8	0.2	0.1	450
TLNMH0603P3N1CT	3.1	±0.2nH	14	500	7.5	8.8	0.2	0.1	450
TLNMH0603P3N2ST	3.2	±0.3nH	14	500	7.5	8.4	0.2	0.14	450
TLNMH0603P3N2BT	3.2	±0.1nH	14	500	7.5	8.4	0.2	0.14	450
TLNMH0603P3N2CT	3.2	±0.2nH	14	500	7.5	8.4	0.2	0.14	450
TLNMH0603P3N3ST	3.3	±0.3nH	14	500	7.5	8.4	0.2	0.13	450
TLNMH0603P3N3BT	3.3	±0.1nH	14	500	7.5	8.4	0.2	0.13	450
TLNMH0603P3N3CT	3.3	±0.2nH	14	500	7.5	8.4	0.2	0.13	450
TLNMH0603P3N4ST	3.4	±0.3nH	14	500	7	8.1	0.2	0.13	450
TLNMH0603P3N4BT	3.4	±0.1nH	14	500	7	8.1	0.2	0.13	450
TLNMH0603P3N4CT	3.4	±0.2nH	14	500	7	8.1	0.2	0.13	450

**Electrical Characteristics @20°C**

Part Number	Inductance (nH)	Tolerance	Q (Min.)	Test Freq. (MHz)	SRF GHz(Min.)	SRF GHz(Typ.)	DCR Ω(Max.)	DCR Ω(Typ.)	Rated Current mA(Max.)
TLNMH0603P3N5ST	3.5	±0.3nH	14	500	6.5	8	0.2	0.12	450
TLNMH0603P3N5BT	3.5	±0.1nH	14	500	6.5	8	0.2	0.12	450
TLNMH0603P3N5CT	3.5	±0.2nH	14	500	6.5	8	0.2	0.12	450
TLNMH0603P3N6ST	3.6	±0.3nH	14	500	6.5	7.7	0.2	0.1	400
TLNMH0603P3N6BT	3.6	±0.1nH	14	500	6.5	7.7	0.2	0.1	400
TLNMH0603P3N6CT	3.6	±0.2nH	14	500	6.5	7.7	0.2	0.1	400
TLNMH0603P3N7ST	3.7	±0.3nH	14	500	6.5	7.4	0.2	0.14	400
TLNMH0603P3N7BT	3.7	±0.1nH	14	500	6.5	7.4	0.2	0.14	400
TLNMH0603P3N7CT	3.7	±0.2nH	14	500	6.5	7.4	0.2	0.14	400
TLNMH0603P3N8ST	3.8	±0.3nH	14	500	5.8	7	0.3	0.24	400
TLNMH0603P3N8BT	3.8	±0.1nH	14	500	5.8	7	0.3	0.24	400
TLNMH0603P3N8CT	3.8	±0.2nH	14	500	5.8	7	0.3	0.24	400
TLNMH0603P3N9ST	3.9	±0.3nH	14	500	5.8	7.1	0.3	0.22	400
TLNMH0603P3N9BT	3.9	±0.1nH	14	500	5.8	7.1	0.3	0.22	400
TLNMH0603P3N9CT	3.9	±0.2nH	14	500	5.8	7.1	0.3	0.22	400
TLNMH0603P4N0ST	4	±0.3nH	14	500	5.8	6.7	0.4	0.21	350
TLNMH0603P4N0BT	4	±0.1nH	14	500	5.8	6.7	0.4	0.21	350
TLNMH0603P4N0CT	4	±0.2nH	14	500	5.8	6.7	0.4	0.21	350
TLNMH0603P4N1ST	4.1	±0.3nH	14	500	5.8	6.7	0.4	0.29	350
TLNMH0603P4N1BT	4.1	±0.1nH	14	500	5.8	6.7	0.4	0.29	350
TLNMH0603P4N1CT	4.1	±0.2nH	14	500	5.8	6.7	0.4	0.29	350
TLNMH0603P4N2ST	4.2	±0.3nH	14	500	5.8	6.6	0.4	0.24	350
TLNMH0603P4N2BT	4.2	±0.1nH	14	500	5.8	6.6	0.4	0.24	350
TLNMH0603P4N2CT	4.2	±0.2nH	14	500	5.8	6.6	0.4	0.24	350
TLNMH0603P4N3ST	4.3	±0.3nH	14	500	5.8	6.7	0.4	0.24	350
TLNMH0603P4N3HT	4.3	±3%	14	500	5.8	6.7	0.4	0.24	350
TLNMH0603P4N3JT	4.3	±5%	14	500	5.8	6.7	0.4	0.24	350
TLNMH0603P4N7ST	4.7	±0.3nH	14	500	5.5	6.9	0.4	0.16	350
TLNMH0603P4N7HT	4.7	±3%	14	500	5.5	6.9	0.4	0.16	350
TLNMH0603P4N7JT	4.7	±5%	14	500	5.5	6.9	0.4	0.16	350
TLNMH0603P5N1ST	5.1	±0.3nH	14	500	5.5	6.6	0.4	0.3	350
TLNMH0603P5N1HT	5.1	±3%	14	500	5.5	6.6	0.4	0.3	350
TLNMH0603P5N1JT	5.1	±5%	14	500	5.5	6.6	0.4	0.3	350
TLNMH0603P5N6ST	5.6	±0.3nH	14	500	4	5.3	0.4	0.32	350
TLNMH0603P5N6HT	5.6	±3%	14	500	4	5.3	0.4	0.32	350
TLNMH0603P5N6JT	5.6	±5%	14	500	4	5.3	0.4	0.32	350
TLNMH0603P6N2ST	6.2	±0.3nH	14	500	4	6.3	0.7	0.59	300
TLNMH0603P6N2HT	6.2	±3%	14	500	4	6.3	0.7	0.59	300
TLNMH0603P6N2JT	6.2	±5%	14	500	4	6.3	0.7	0.59	300
TLNMH0603P6N8HT	6.8	±3%	14	500	4	6.1	0.75	0.62	300
TLNMH0603P6N8JT	6.8	±5%	14	500	4	6.1	0.75	0.62	300
TLNMH0603P7N5HT	7.5	±3%	14	500	4	5.4	0.8	0.7	300
TLNMH0603P7N5JT	7.5	±5%	14	500	4	5.4	0.8	0.7	300
TLNMH0603P8N2HT	8.2	±3%	14	500	4	5.2	0.85	0.71	250
TLNMH0603P8N2JT	8.2	±5%	14	500	4	5.2	0.85	0.71	250
TLNMH0603P9N1HT	9.1	±3%	14	500	4	5	0.9	0.76	250
TLNMH0603P9N1JT	9.1	±5%	14	500	4	5	0.9	0.76	250
TLNMH0603P10NHT	10	±3%	14	500	4	4.7	0.95	0.85	250
TLNMH0603P10NJT	10	±5%	14	500	4	4.7	0.95	0.85	250
TLNMH0603P11NHT	11	±3%	14	500	3.5	4.5	1	0.64	250
TLNMH0603P11NJT	11	±5%	14	500	3.5	4.5	1	0.64	250

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Part Number	Inductance (nH)	Tolerance	Q (Min.)	Test Freq. (MHz)	SRF GHz(Min.)	SRF GHz(Typ.)	DCR Ω(Max.)	DCR Ω(Typ.)	Rated Current mA(Max.)
TLNMH0603P12NHT	12	±3%	14	500	3.5	4.3	1.1	0.82	250
TLNMH0603P12NJT	12	±5%	14	500	3.5	4.3	1.1	0.82	250
TLNMH0603P13NHT	13	±3%	14	500	3.2	4.2	1.1	0.87	250
TLNMH0603P13NJT	13	±5%	14	500	3.2	4.2	1.1	0.87	250
TLNMH0603P15NHT	15	±3%	14	500	3.2	3.7	1.2	0.94	250
TLNMH0603P15NJT	15	±5%	14	500	3.2	3.7	1.2	0.94	250
TLNMH0603P16NHT	16	±3%	14	500	3	3.6	1.2	1	200
TLNMH0603P16NJT	16	±5%	14	500	3	3.6	1.2	1	200
TLNMH0603P18NHT	18	±3%	14	500	3	3.5	1.4	1.04	200
TLNMH0603P18NJT	18	±5%	14	500	3	3.5	1.4	1.04	200
TLNMH0603P20NHT	20	±3%	14	500	2.2	3.3	1.9	1.33	150
TLNMH0603P20NJT	20	±5%	14	500	2.2	3.3	1.9	1.33	150
TLNMH0603P22NHT	22	±3%	14	500	2.2	2.9	1.9	1.31	150
TLNMH0603P22NJT	22	±5%	14	500	2.2	2.9	1.9	1.31	150
TLNMH0603P24NHT	24	±3%	14	500	2.2	2.9	2.1	1.17	140
TLNMH0603P24NJT	24	±5%	14	500	2.2	2.9	2.1	1.17	140
TLNMH0603P27NHT	27	±3%	14	500	2.2	2.7	2.1	1.45	140
TLNMH0603P27NJT	27	±5%	14	500	2.2	2.7	2.1	1.45	140
TLNMH0603P30NHT	30	±3%	10	300	1.8	2.3	2.2	1.37	130
TLNMH0603P30NJT	30	±5%	10	300	1.8	2.3	2.2	1.37	130
TLNMH0603P33NHT	33	±3%	10	300	1.8	2.4	2.2	1.55	130
TLNMH0603P33NJT	33	±5%	10	300	1.8	2.4	2.2	1.55	130
TLNMH0603P36NHT	36	±3%	10	300	1.8	2.2	2.4	1.49	120
TLNMH0603P36NJT	36	±5%	10	300	1.8	2.2	2.4	1.49	120
TLNMH0603P39NHT	39	±3%	10	300	1.8	2.2	2.4	1.72	120
TLNMH0603P39NJT	39	±5%	10	300	1.8	2.2	2.4	1.72	120
TLNMH0603P43NHT	43	±3%	10	300	1.6	2	2.9	1.61	110
TLNMH0603P43NJT	43	±5%	10	300	1.6	2	2.9	1.61	110
TLNMH0603P47NHT	47	±3%	10	300	1.6	2	2.9	2.18	110
TLNMH0603P47NJT	47	±5%	10	300	1.6	2	2.9	2.18	110
TLNMH0603P51NHT	51	±3%	10	300	1.4	1.9	3.5	1.87	100
TLNMH0603P51NJT	51	±5%	10	300	1.4	1.9	3.5	1.87	100
TLNMH0603P56NHT	56	±3%	10	300	1.4	1.8	3.5	2.35	100
TLNMH0603P56NJT	56	±5%	10	300	1.4	1.8	3.5	2.35	100
TLNMH0603P62NHT	62	±3%	10	300	1.2	1.6	3.5	2.12	100
TLNMH0603P62NJT	62	±5%	10	300	1.2	1.6	3.5	2.12	100
TLNMH0603P68NHT	68	±3%	9	300	1.2	1.6	3.5	2.69	100
TLNMH0603P68NJT	68	±5%	9	300	1.2	1.6	3.5	2.69	100
TLNMH0603P75NHT	75	±3%	9	300	1	1.5	4	2.59	80
TLNMH0603P75NJT	75	±5%	9	300	1	1.5	4	2.59	80
TLNMH0603P82NHT	82	±3%	9	300	1	1.5	4	2.71	80
TLNMH0603P82NJT	82	±5%	9	300	1	1.5	4	2.71	80
TLNMH0603P91NHT	91	±3%	9	300	0.9	1.3	4.5	2.92	80
TLNMH0603P91NJT	91	±5%	9	300	0.9	1.3	4.5	2.92	80
TLNMH0603PR10HT	100	±3%	9	300	0.9	1.3	4.5	3.2	80
TLNMH0603PR10JT	100	±5%	9	300	0.9	1.3	4.5	3.2	80
TLNMH0603PR11HT	110	±3%	9	300	0.8	1.1	5	3.5	80
TLNMH0603PR11JT	110	±5%	9	300	0.8	1.1	5	3.5	80
TLNMH0603PR12HT	120	±3%	9	300	0.8	1	5	3.79	80
TLNMH0603PR12JT	120	±5%	9	300	0.8	1	5	3.79	80



**Q vs Frequency Characteristics (Typ.)**

