

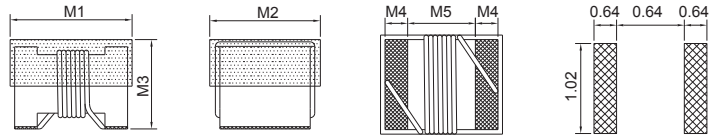
0603HQ Series

■ SMD Wire Wound Ceramic Chip Inductors

MECHANICAL DIMENSIONS



0603HQ



Recommended Patterns

unit: mm

Part Number	M1	M2	M3	M4	M5
0603HQ	1.70±0.1	1.02±0.1	0.92±0.1	0.33±0.5	0.86±0.5

ELECTRICAL SPECIFICATION

Part Number	Inductance (nH)	Inductance Tolerance	Test Freq. (MHz)	Q (typ.)	Test Freq. (MHz)	SRF (GHz) Min.	DCR (Ω) Max.	I _{rms} (mA)	Color Code
0603HQ-1N8 □ -LRH	1.8	J	250	23	250	16.0	0.033	2100	BLACK
0603HQ-2N2 □ -LRH	2.2	J	250	13	250	15.0	0.180	900	YELLOW
0603HQ-3N3 □ -LRH	3.3	J	250	32	250	9.60	0.024	1900	BLUE
0603HQ-3N6 □ -LRH	3.6	J,G	250	40	250	9.70	0.031	1900	RED
0603HQ-3N9 □ -LRH	3.9	J,G	250	35	250	7.50	0.039	1600	BROWN
0603HQ-4N3 □ -LRH	4.3	J,G	250	30	250	7.50	0.080	1300	ORANGE
0603HQ-4N7 □ -LRH	4.7	J,G	250	26	250	7.90	0.100	1100	VIOLET
0603HQ-5N6 □ -LRH	5.6	J,G	250	48	250	6.60	0.036	1700	BLACK
0603HQ-6N0 □ -LRH	6.0	J,G	250	49	250	6.00	0.036	1700	WHITE
0603HQ-6N8 □ -LRH	6.8	J,G	250	42	250	5.80	0.042	1400	RED
0603HQ-7N2 □ -LRH	7.2	J,G	250	48	250	5.40	0.052	1400	WHITE
0603HQ-7N5 □ -LRH	7.5	J,G	250	41	250	5.30	0.080	1300	BROWN
0603HQ-8N2 □ -LRH	8.2	J,G	250	46	250	5.90	0.054	1400	ORANGE
0603HQ-8N7 □ -LRH	8.7	J,G	250	46	250	5.50	0.054	1400	YELLOW
0603HQ-9N1 □ -LRH	9.1	J,G	250	40	250	5.10	0.037	1400	BLACK
0603HQ-9N5 □ -LRH	9.5	J,G	250	49	250	4.90	0.053	1400	BLUE
0603HQ-10N □ -LRH	10	J,G	250	49	250	4.30	0.048	1400	ORANGE
0603HQ-11N □ -LRH	11	J,G	250	41	250	4.10	0.042	1400	GRAY
0603HQ-12N □ -LRH	12	J,G	250	37	250	4.10	0.088	1100	YELLOW
0603HQ-15N □ -LRH	15	J,G	250	48	250	3.60	0.078	1200	GREEN
0603HQ-16N □ -LRH	16	J,G	250	45	250	3.50	0.085	1100	WHITE
0603HQ-18N □ -LRH	18	J,G	250	41	250	3.30	0.066	1200	BLUE
0603HQ-22N □ -LRH	22	J,G	250	44	250	3.15	0.140	850	VIOLET
0603HQ-23N □ -LRH	23	J,G	250	40	250	3.00	0.150	850	ORANGE
0603HQ-24N □ -LRH	24	J,G	250	42	250	2.95	0.074	1100	BLACK
0603HQ-27N □ -LRH	27	J,G	250	44	250	2.80	0.150	780	GRAY
0603HQ-30N □ -LRH	30	J,G	250	49	250	2.80	0.130	920	BROWN
0603HQ-33N □ -LRH	33	J,G	250	45	250	2.70	0.170	680	WHITE
0603HQ-36N □ -LRH	36	J,G	250	44	250	2.50	0.225	720	RED
0603HQ-39N □ -LRH	39	J,G	250	48	250	2.45	0.190	680	BLACK
0603HQ-43N □ -LRH	43	J,G	250	45	250	2.45	0.170	810	ORANGE
0603HQ-47N □ -LRH	47	J,G	200	47	250	2.30	0.24	680	BROWN
0603HQ-51N □ -LRH	51	J,G	200	49	250	2.30	0.28	660	BLUE
0603HQ-56N □ -LRH	56	J,G	200	50	250	2.20	0.30	610	RED
0603HQ-68N □ -LRH	68	J,G	200	46	250	2.00	0.33	600	ORANGE
0603HQ-72N □ -LRH	72	J,G	150	46	250	1.90	0.42	550	YELLOW
0603HQ-75N □ -LRH	75	J,G	150	46	250	1.90	0.52	500	VIOLET
0603HQ-82N □ -LRH	82	J,G	150	45	250	1.80	0.56	510	GREEN
0603HQ-91N □ -LRH	91	J,G	150	45	250	1.65	0.58	440	WHITE
0603HQ-R10 □ -LRH	100	J,G	150	49	250	1.70	0.54	470	BLUE
0603HQ-R11 □ -LRH	110	J,G	150	47	250	1.60	0.58	440	VIOLET
0603HQ-R12 □ -LRH	120	J,G	150	47	250	1.55	0.72	420	GRAY
0603HQ-R18 □ -LRH	180	J,G	100	48	250	1.30	1.50	310	BLACK
0603HQ-R20 □ -LRH	200	J,G	100	47	250	1.25	2.00	280	GREEN

SMD

Leaded

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ELECTRICAL SPECIFICATION

Part Number	Inductance (nH)	Inductance Tolerance	Test Freq. (MHz)	Q (typ.)	Test Freq. (MHz)	SRF (GHz) Min.	DCR (Ω) Max.	I _{rms} (mA)	Color Code
0603HQ-R21 □ -LRH	210	J,G	100	48	250	1.20	2.00	280	GRAY
0603HQ-R22 □ -LRH	220	J,G	100	47	250	1.10	2.00	280	BROWN
0603HQ-R25 □ -LRH	250	J,G	100	45	250	1.05	3.00	240	VIOLET
0603HQ-R27 □ -LRH	270	J,G	100	46	250	1.05	2.25	260	RED
0603HQ-R30 □ -LRH	300	J,G	100	47	250	0.99	2.80	220	GREEN
0603HQ-R33 □ -LRH	330	J,G	100	46	250	0.93	3.60	180	BLUE
0603HQ-R36 □ -LRH	360	J,G	100	47	250	0.93	4.00	170	GRAY
0603HQ-R39 □ -LRH	390	J,G	100	47	250	0.88	4.00	170	YELLOW

- Tolerance: G=±2% ; J=±5%
- Operating Temp: -40°C to +125°C
- For 15°C Temperature Rise.
- Inductance & Q measured using the 4287A with 16197A
- SRF measured using the HP 8753E or HP4291B with 16193A.
- DCR measured using the AGILENT 4338B.
- Unspecified values available on request.

CHARACTERISTIC CURVE

0603HQ Series

