

Chip Inductors (High Frequency) HCH 060303-201212Series



Features

- To prevent EMI interference noises between electronic circuits.
- High Q and high reliability and ferrite material.

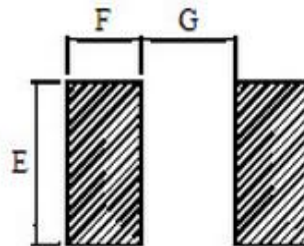
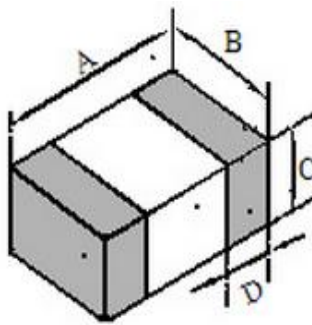
Application

- Notebook Computer, Disc Drive Unit (CD/DVD), Inkjet Printer Hard Disk Drive, Copying Machine, Display Monitor, Gaming Machine, Color TV, Video Tape Recorder, DVD Player, Video Camera, Digital Still Camera, Car Electronics, Lowest EMI.

Tolerance

- (S±0.3nH, J±5%, K±10%, M±20%)

Configurations & Dimensions



Dimensions

Chip Size

Units:mm

TYPE	A	B	C	D	E	F	G
HCH060303 (0201)	0.6 ± 0.03	0.3 ± 0.03	0.33max	0.1~0.2			
HCH100505 (0402)	1.0 ± 0.05	0.5 ± 0.05	0.5 ± 0.05	0.1~0.3	0.5	0.45	0.5
HCH160808 (0603)	1.6 ± 0.15	0.8 ± 0.15	0.8 ± 0.15	0.2~0.6	0.7	0.7	0.7
HCH201209 (0805)	2.0 ± 0.2	1.25 ± 0.2	0.85 ± 0.2	0.2~0.8	1.0	0.8	1.0
HCH201212 (0805)	2.0 ± 0.2	1.25 ± 0.0	1.25 ± 0.2	0.2~0.8	1.0	0.8	1.0



Specifications HCH060303

Part Number	Inductance (nH)	Tolerance (%)	Q min	SRF (GHz) min	DCR (Ω) max	Rated DC Current (mA) max
HCH060303-0N7S	0.7&100MHz	±0.2nH	13.0	10	0.06	600
HCH060303-1N0S	1.0&100MHz	±0.3nH	4.0	10	0.14	250
HCH060303-1N2S	1.2&100MHz	±0.3nH	4.0	10	0.14	250
HCH060303-1N5S	1.5&100MHz	±0.3nH	4.0	10	0.18	230
HCH060303-1N8S	1.8&100MHz	±0.3nH	4.0	10	0.19	200
HCH060303-2N2S	2.2&100MHz	±0.3nH	4.0	8.8	0.22	200
HCH060303-2N7S	2.7&100MHz	±0.3nH	5.0	7.7	0.25	200
HCH060303-3N3S	3.3&100MHz	±0.3nH	5.0	6.7	0.30	180
HCH060303-3N9S	3.9&100MHz	±0.3nH	5.0	6.0	0.30	170
HCH060303-4N7S	4.7&100MHz	±0.3nH	5.0	5.3	0.40	150
HCH060303-5N1S	5.1&100MHz	±0.3nH	5.0	4.7	0.40	150
HCH060303-5N6S	5.6&100MHz	±0.3nH	5.0	4.2	0.40	150
HCH060303-6N8J	6.8&100MHz	±5%	5.0	3.5	0.50	150
HCH060303-8N2J	8.2&100MHz	±5%	5.0	3.2	0.55	150
HCH060303-10NJ	10&100MHz	±5%	5.0	2.8	0.65	150
HCH060303-12NJ	12&100MHz	±5%	5.0	2.4	0.70	100
HCH060303-15NJ	15&100MHz	±5%	5.0	2.2	0.80	100
HCH060303-18NJ	18&100MHz	±5%	5.0	2.1	0.90	100
HCH060303-22NJ	22&100MHz	±5%	5.0	1.8	1.20	100
HCH060303-27NJ	27&100MHz	±5%	4.0	1.8	1.80	50
HCH060303-33NJ	33&100MHz	±5%	4.0	1.7	2.10	50
HCH060303-39NJ	39&100MHz	±5%	4.0	1.5	2.40	50

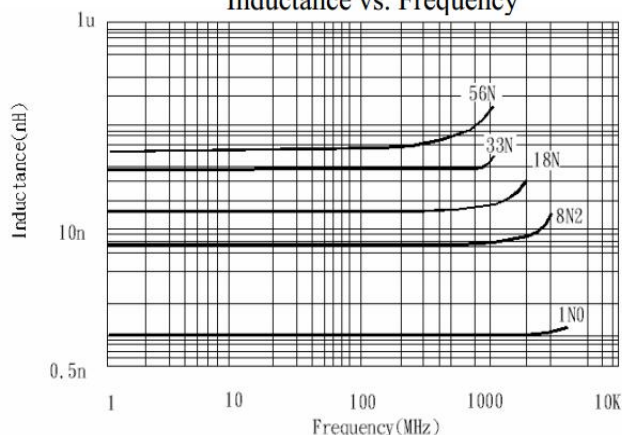
Chip Inductors HCH 100505 Series



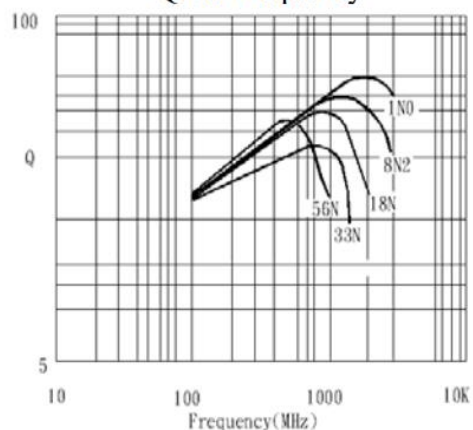
Specifications HCH100505

Part Number	Inductance (nH)	Tolerance (%)	Q min	SRF (GHz) min	DCR (Ω) max	Rated DC Current (mA) max
HCH100505-1N0S	1.0&100MHz	±0.3nH	8.0	10	0.08	300
HCH100505-1N2S	1.2&100MHz	±0.3nH	8.0	10	0.09	300
HCH100505-1N5S	1.5&100MHz	±0.3nH	8.0	6.0	0.10	300
HCH100505-1N8S	1.8&100MHz	±0.3nH	8.0	6.0	0.12	300
HCH100505-2N0S	2.0&100MHz	±0.3nH	8.0	6.0	0.12	300
HCH100505-2N2S	2.2&100MHz	±0.3nH	8.0	6.0	0.13	300
HCH100505-2N4S	2.4&100MHz	±0.3nH	8.0	6.0	0.13	300
HCH100505-2N7S	2.7&100MHz	±0.3nH	8.0	6.0	0.13	300
HCH100505-3N0S	3.0&100MHz	±0.3nH	8.0	6.0	0.16	300
HCH100505-3N3S	3.3&100MHz	±0.3nH	8.0	6.0	0.16	300
HCH100505-3N9S	3.9&100MHz	±0.3nH	8.0	4.0	0.21	300
HCH100505-4N7S	4.7&100MHz	±0.3nH	8.0	4.0	0.21	300
HCH100505-5N6S	5.6&100MHz	±0.3nH	8.0	4.0	0.23	300
HCH100505-6N8J	6.8&100MHz	±5%	8.0	3.9	0.25	300
HCH100505-8N2J	8.2&100MHz	±5%	8.0	3.6	0.28	300
HCH100505-10NJ	10&100MHz	±5%	8.0	3.2	0.31	300
HCH100505-12NJ	12&100MHz	±5%	8.0	2.7	0.40	300
HCH100505-15NJ	15&100MHz	±5%	8.0	2.3	0.46	300
HCH100505-18NJ	18&100MHz	±5%	8.0	2.1	0.55	300
HCH100505-22NJ	22&100MHz	±5%	8.0	1.9	0.60	300
HCH100505-27NJ	27&100MHz	±5%	8.0	1.6	0.70	300
HCH100505-33NJ	33&100MHz	±5%	8.0	1.3	0.80	200
HCH100505-39NJ	39&100MHz	±5%	8.0	1.2	0.90	200
HCH100505-47NJ	47&100MHz	±5%	8.0	1.0	1.00	200
HCH100505-56NJ	56&100MHz	±5%	8.0	0.75	1.00	200
HCH100505-68NJ	68&50MHz	±5%	8.0	0.75	1.20	180
HCH100505-82NJ	82&50MHz	±5%	8.0	0.60	1.30	150
HCH100505-R10J	100&50MHz	±5%	8.0	0.60	1.50	150
HCH100505-R12J	120&50MHz	±5%	8.0	0.60	1.60	150
HCH100505-R22J	220&50MHz	±5%	12.0	0.35	4.00	100

Inductance vs. Frequency



Q vs. Frequency

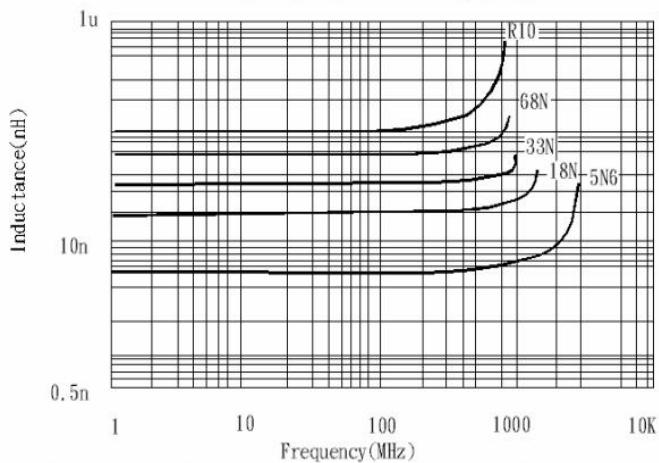




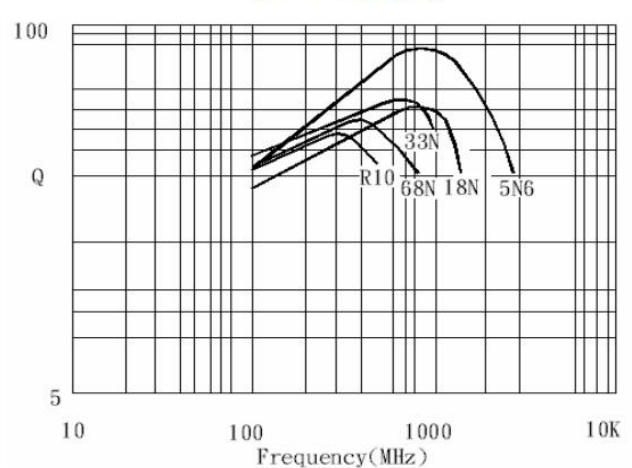
Specifications HCH160808

Part Number	Inductance (nH)	Tolerance (%)	Q min	SRF (GHz) min	DCR (Ω) max	Rated DC Current (mA) max
HCH160808-1N0S	1.0&100MHz	±0.3nH	8.0	10	0.05	300
HCH160808-1N2S	1.2&100MHz	±0.3nH	8.0	10	0.05	300
HCH160808-1N5S	1.5&100MHz	±0.3nH	8.0	6.0	0.10	300
HCH160808-1N8S	1.8&100MHz	±0.3nH	8.0	6.0	0.10	300
HCH160808-2N2S	2.2&100MHz	±0.3nH	8.0	6.0	0.10	300
HCH160808-2N7S	2.7&100MHz	±0.3nH	10.0	6.0	0.10	300
HCH160808-3N3S	3.3&100MHz	±0.3nH	10.0	6.0	0.12	300
HCH160808-3N9S	3.9&100MHz	±0.3nH	10.0	6.0	0.14	300
HCH160808-4N7S	4.7&100MHz	±0.3nH	10.0	4.0	0.16	300
HCH160808-5N6S	5.6&100MHz	±0.3nH	10.0	4.0	0.18	300
HCH160808-6N8J	6.8&100MHz	±5%	10.0	4.0	0.22	300
HCH160808-8N2J	8.2&100MHz	±5%	10.0	3.5	0.24	300
HCH160808-10NJ	10&100MHz	±5%	12.0	3.4	0.26	300
HCH160808-12NJ	12&100MHz	±5%	12.0	2.6	0.28	300
HCH160808-15NJ	15&100MHz	±5%	12.0	2.3	0.32	300
HCH160808-18NJ	18&100MHz	±5%	12.0	2.0	0.35	300
HCH160808-22NJ	22&100MHz	±5%	12.0	1.6	0.40	300
HCH160808-27NJ	27&100MHz	±5%	12.0	1.4	0.45	300
HCH160808-33NJ	33&100MHz	±5%	12.0	1.2	0.55	300
HCH160808-39NJ	39&100MHz	±5%	12.0	1.1	0.60	300
HCH160808-47NJ	47&100MHz	±5%	12.0	0.9	0.70	300
HCH160808-56NJ	56&100MHz	±5%	12.0	0.90	0.75	300
HCH160808-68NJ	68&50MHz	±5%	12.0	0.70	0.85	300
HCH160808-82NJ	82&50MHz	±5%	12.0	0.60	0.95	300
HCH160808-R10J	100&50MHz	±5%	12.0	0.60	1.00	300
HCH160808-R12J	120&50MHz	±5%	8.0	0.50	1.20	300
HCH160808-R15J	150&50MHz	±6%	8.0	0.50	1.20	300
HCH160808-R18J	180&50MHz	±7%	8.0	0.40	1.30	300
HCH160808-R22J	220&50MHz	±8%	8.0	0.40	1.50	300

Inductance vs. Frequency



Q vs. Frequency

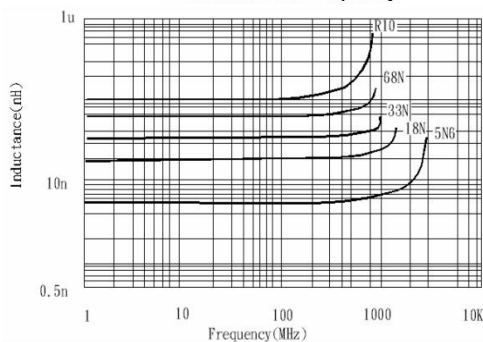




Specifications HCH201209 201212

Part Number	Inductance (nH)	Tolerance (%)	Q min	SRF (GHz) min	DCR (Ω) max	Rated DC Current (mA) max
HCH201209-1N0S	1.0&100MHz	±0.3nH	10.0	10	0.10	300
HCH201209-1N2S	1.2&100MHz	±0.3nH	10.0	10	0.10	300
HCH201209-1N5S	1.5&100MHz	±0.3nH	10.0	4.0	0.10	300
HCH201209-1N8S	1.8&100MHz	±0.3nH	10.0	4.0	0.10	300
HCH201209-2N2S	2.2&100MHz	±0.3nH	10.0	4.0	0.10	300
HCH201209-2N7S	2.7&100MHz	±0.3nH	12.0	4.0	0.10	300
HCH201209-3N3S	3.3&100MHz	±0.3nH	12.0	4.0	0.13	300
HCH201209-3N9S	3.9&100MHz	±0.3nH	12.0	4.0	0.15	300
HCH201209-4N7S	4.7&100MHz	±0.3nH	12.0	3.5	0.20	300
HCH201209-5N6S	5.6&100MHz	±0.3nH	15.0	3.2	0.23	300
HCH201209-6N8J	6.8&100MHz	±5%	15.0	2.8	0.25	300
HCH201209-8N2J	8.2&100MHz	±5%	15.0	2.4	0.28	300
HCH201209-10NJ	10&100MHz	±5%	15.0	2.1	0.30	300
HCH201209-12NJ	12&100MHz	±5%	15.0	1.9	0.35	300
HCH201209-15NJ	15&100MHz	±5%	15.0	1.6	0.40	300
HCH201209-18NJ	18&100MHz	±5%	15.0	1.5	0.45	300
HCH201209-22NJ	22&100MHz	±5%	18.0	1.4	0.50	300
HCH201209-27NJ	27&100MHz	±5%	18.0	1.3	0.55	300
HCH201209-33NJ	33&100MHz	±5%	18.0	1.2	0.60	300
HCH201209-39NJ	39&100MHz	±5%	18.0	1.0	0.65	300
HCH201209-47NJ	47&100MHz	±5%	18.0	0.9	0.70	300
HCH201209-56NJ	56&100MHz	±5%	18.0	0.80	0.75	300
HCH201209-68NJ	68&100MHz	±5%	18.0	0.70	0.80	300
HCH201209-82NJ	82&100MHz	±5%	18.0	0.60	0.90	300
HCH201209-R10J	100&100MHz	±5%	18.0	0.60	0.90	300
HCH201209-R12J	120&50MHz	±5%	13.0	0.50	0.95	300
HCH201212-R15J	150&50MHz	±5%	13.0	0.50	1.00	300
HCH201212-R18J	180&50MHz	±5%	13.0	0.40	1.10	300
HCH201212-R22J	220&50MHz	±5%	12.0	0.35	1.20	300
HCH201212-R27J	270&50MHz	±5%	12.0	0.30	1.30	300
HCH201212-R33J	330&50MHz	±5%	12.0	0.25	1.40	300
HCH201212-R39J	390&50MHz	±5%	10.0	0.25	1.40	300
HCH201212-R47J	470&50MHz	±5%	10.0	0.20	1.50	300
HCH201212-R56J	560&25MHz	±5%	10.0	0.18	5.00	50
HCH201212-R68J	680&25MHz	±5%	10.0	0.16	5.50	50

Inductance vs. Frequency



Q vs. Frequency

