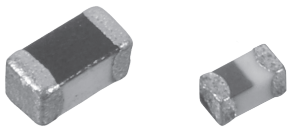
SMD High Frequency Chip Inductor

HCI Series



Features

- Monolithic inorganic material construction
- Closed magnetic circuit avoids crosstalk
- Excellent solderability and heat resistance

Application

- Wireless communications, cellular phone, cordless phone, pager, etc.
- Miscellaneous high-frequency circuits
- EMI countermeasure in high-frequency circuits

Part Numbering

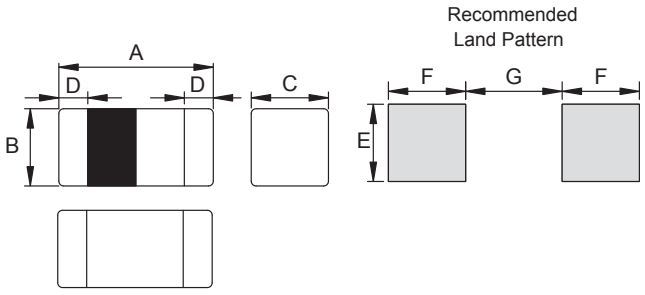
HCI 0603 □ - 1N0 S - □ A

1 2 3 4 5 6 7

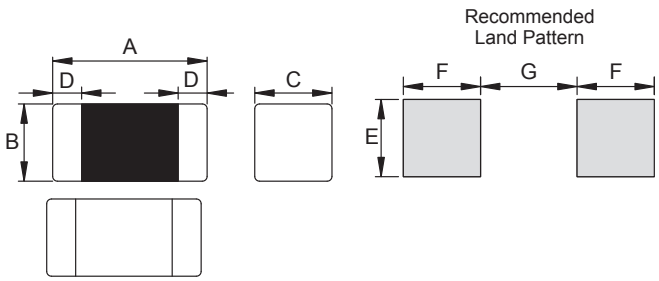
1. Product Group
2. Dimension Code
3. Marking Code
   H: 1/8 Marking, M: 1/4 Marking
4. Inductance Code: N means decimal point
   Ex: 1N0→1.0nH
5. Inductance Tolerance
6. Control Code
7. Automobile Code

Shapes and Dimension

HCI0402H / HCI0603H



HCI1005M / HCI1608M



Unit: mm

Type	A	B	C	D	E	F	G
HCI0402	0.40±0.02	0.20±0.02	0.20±0.02	0.095±0.025	0.215	0.15	0.18
HCI0603	0.60±0.03	0.30±0.03	0.30±0.03	0.15±0.05	0.30	0.35	0.30
HCI1005	1.00±0.10	0.50±0.10	0.50±0.10	0.25±0.10	0.50	0.45	0.40
HCI1608	1.60±0.15	0.80±0.15	0.80±0.15	0.30±0.20	0.70	0.60	0.75

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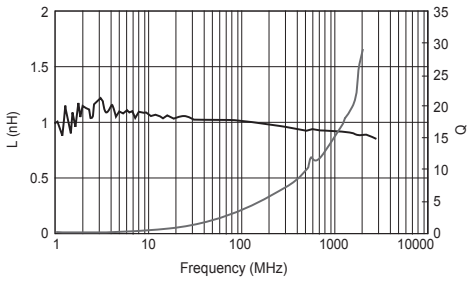
General Technical Data

Operating Temperature Range	-40°C~+125°C
Storage Temperature	40°C Max. , 70%RHMax.

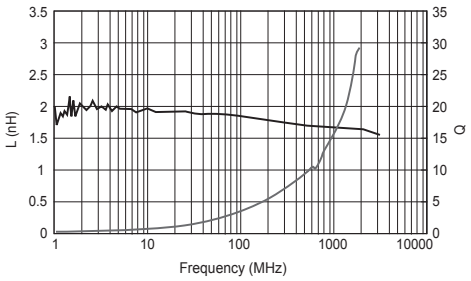
Electrical Characteristics

Part Number	Inductance	Q (Min.)	Test Frequency	Self Resonance Frequency (Min.)	DC Resistance (RDC) Max.	Rated Current (IDC) Max.
HCI0402H Series						
HCI0402H-1N0B-☐	1.00nH±0.1nH	8	500MHz	13000MHz	0.60Ω	220mA
HCI0402H-1N2B-☐	1.20nH±0.1nH	8	500MHz	12500MHz	0.60Ω	220mA
HCI0402H-1N5B-☐	1.50nH±0.1nH	8	500MHz	9500MHz	0.60Ω	220mA
HCI0402H-1N8B-☐	1.80nH±0.1nH	8	500MHz	9000MHz	0.70Ω	200mA
HCI0402H-2N0B-☐	2.00nH±0.1nH	8	500MHz	9000MHz	0.75Ω	200mA
HCI0402H-2N2B-☐	2.20nH±0.1nH	8	500MHz	7500MHz	0.75Ω	200mA
HCI0402H-2N7B-☐	2.70nH±0.1nH	8	500MHz	7500MHz	0.80Ω	200mA

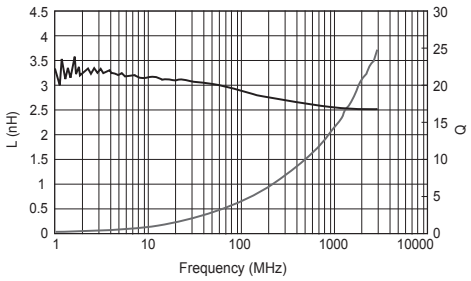
HCI0402H-1N0



HCI0402H-1N8



HCI0402H-2N7



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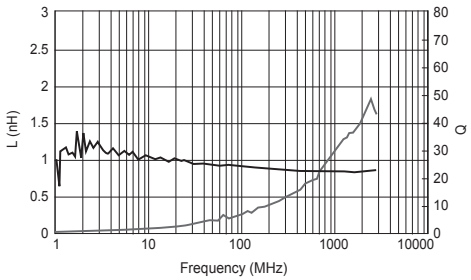
Electrical Characteristics

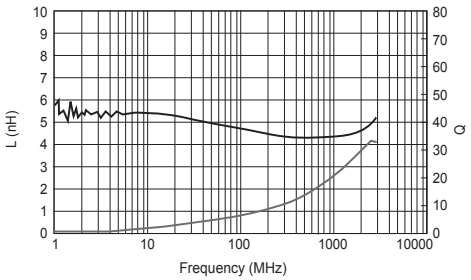
AEC Q200

Part Number	Inductance	Q (Min.)	Test Frequency	Self Resonance Frequency (Min.)	DC Resistance (RDC) Max.	Rated Current (IDC) Max.
HCI0603H Series						
HCI0603H-1N0S-☐A	1.00nH±0.3nH	4	100MHz	>10000MHz	0.11Ω	470mA
HCI0603H-1N2S-☐A	1.20nH±0.3nH	4	100MHz	>10000MHz	0.12Ω	450mA
HCI0603H-1N5S-☐A	1.50nH±0.3nH	4	100MHz	>10000MHz	0.13Ω	430mA
HCI0603H-1N8S-☐A	1.80nH±0.3nH	4	100MHz	>10000MHz	0.16Ω	390mA
HCI0603H-2N0S-☐A	2.00nH±0.3nH	4	100MHz	>10000MHz	0.17Ω	380mA
HCI0603H-2N2S-☐A	2.20nH±0.3nH	4	100MHz	8800MHz	0.19Ω	360mA
HCI0603H-2N4S-☐A	2.40nH±0.3nH	4	100MHz	8300MHz	0.20Ω	350mA
HCI0603H-2N7S-☐A	2.70nH±0.3nH	4	100MHz	7700MHz	0.21Ω	340mA
HCI0603H-3N0S-☐A	3.00nH±0.3nH	4	100MHz	7200MHz	0.22Ω	330mA
HCI0603H-3N3S-☐A	3.30nH±0.3nH	4	100MHz	6700MHz	0.23Ω	320mA
HCI0603H-3N6S-☐A	3.60nH±0.3nH	4	100MHz	6400MHz	0.25Ω	310mA
HCI0603H-3N9S-☐A	3.90nH±0.3nH	4	100MHz	6000MHz	0.27Ω	300mA
HCI0603H-4N3S-☐A	4.30nH±0.3nH	4	100MHz	5700MHz	0.30Ω	280mA
HCI0603H-4N7S-☐A	4.70nH±0.3nH	4	100MHz	5300MHz	0.30Ω	280mA
HCI0603H-5N1S-☐A	5.10nH±0.3nH	4	100MHz	5000MHz	0.33Ω	270mA
HCI0603H-5N6S-☐A	5.60nH±0.3nH	4	100MHz	4600MHz	0.36Ω	260mA
HCI0603H-6N2S-☐A	6.20nH±0.3nH	4	100MHz	4200MHz	0.38Ω	250mA
HCI0603H-6N8J-☐A	6.80nH±5%	4	100MHz	3900MHz	0.39Ω	250mA
HCI0603H-7N5J-☐A	7.50nH±5%	4	100MHz	3600MHz	0.41Ω	240mA
HCI0603H-8N2J-☐A	8.20nH±5%	4	100MHz	3400MHz	0.45Ω	230mA
HCI0603H-9N1J-☐A	9.10nH±5%	4	100MHz	3200MHz	0.48Ω	220mA
HCI0603H-10NJ-☐A	10.00nH±5%	4	100MHz	2900MHz	0.51Ω	220mA
HCI0603H-12NJ-☐A	12.00nH±5%	4	100MHz	2700MHz	0.68Ω	190mA
HCI0603H-15NJ-☐A	15.00nH±5%	4	100MHz	2300MHz	0.71Ω	180mA
HCI0603H-18NJ-☐A	18.00nH±5%	4	100MHz	2100MHz	0.81Ω	170mA
HCI0603H-22NJ-☐A	22.00nH±5%	4	100MHz	1800MHz	1.00Ω	150mA
HCI0603H-27NJ-☐A	27.00nH±5%	4	100MHz	1800MHz	1.35Ω	120mA
HCI0603H-33NJ-☐A	33.00nH±5%	4	100MHz	1700MHz	1.47Ω	110mA
HCI0603H-39NJ-☐A	39.00nH±5%	4	100MHz	1500MHz	1.72Ω	100mA
HCI0603H-47NJ-☐A	47.00nH±5%	4	100MHz	1300MHz	1.90Ω	100mA
HCI0603H-56NJ-☐A	56.00nH±5%	4	100MHz	1100MHz	2.27Ω	80mA

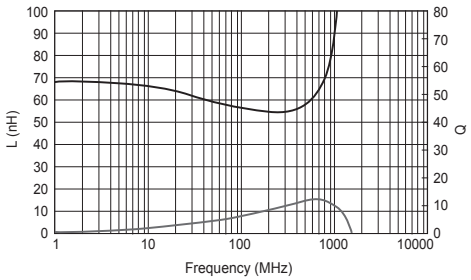
HCI0603H-1N0



HCI0603H-4N7



HCI0603H-56N



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SMD High Frequency Chip Inductor

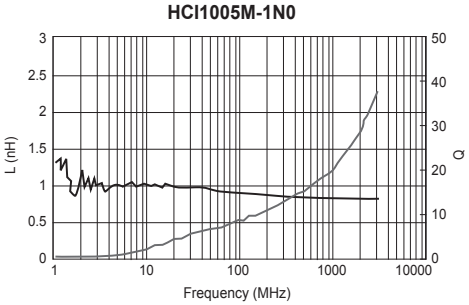
HCI Series

Electrical Characteristics

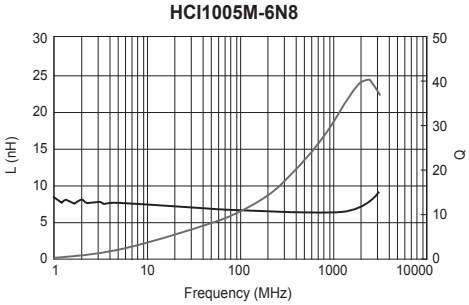
AEC Q200

Part Number	Inductance	Q (Min.)	Test Frequency	Self Resonance Frequency (Typ.)	DC Resistance (RDC) Max.	Rated Current (IDC) Max.
HCI1005M Series						
HCI1005M-1N0S-☐A	1.00nH±0.3nH	8	100MHz	10000MHz	0.07Ω	400mA
HCI1005M-1N2S-☐A	1.20nH±0.3nH	8	100MHz	10000MHz	0.09Ω	400mA
HCI1005M-1N5S-☐A	1.50nH±0.3nH	8	100MHz	9000MHz	0.10Ω	400mA
HCI1005M-1N8S-☐A	1.80nH±0.3nH	8	100MHz	8700MHz	0.10Ω	400mA
HCI1005M-2N0S-☐A	2.00nH±0.3nH	8	100MHz	8100MHz	0.10Ω	400mA
HCI1005M-2N2S-☐A	2.20nH±0.3nH	8	100MHz	8100MHz	0.12Ω	400mA
HCI1005M-2N4S-☐A	2.40nH±0.3nH	8	100MHz	7700MHz	0.15Ω	400mA
HCI1005M-2N7S-☐A	2.70nH±0.3nH	8	100MHz	7700MHz	0.15Ω	400mA
HCI1005M-3N0S-☐A	3.00nH±0.3nH	8	100MHz	6300MHz	0.15Ω	400mA
HCI1005M-3N3S-☐A	3.30nH±0.3nH	8	100MHz	6300MHz	0.15Ω	400mA
HCI1005M-3N6S-☐A	3.60nH±0.3nH	8	100MHz	6100MHz	0.15Ω	400mA
HCI1005M-3N9S-☐A	3.90nH±0.3nH	8	100MHz	6100MHz	0.18Ω	400mA
HCI1005M-4N3S-☐A	4.30nH±0.3nH	8	100MHz	6000MHz	0.18Ω	400mA
HCI1005M-4N7S-☐A	4.70nH±0.3nH	8	100MHz	6000MHz	0.18Ω	400mA
HCI1005M-5N1S-☐A	5.10nH±0.3nH	8	100MHz	5300MHz	0.20Ω	400mA
HCI1005M-5N6S-☐A	5.60nH±0.3nH	8	100MHz	5100MHz	0.20Ω	400mA
HCI1005M-6N8J-☐A	6.80nH±5%	8	100MHz	4550MHz	0.24Ω	400mA
HCI1005M-8N2J-☐A	8.20nH±5%	8	100MHz	4100MHz	0.24Ω	300mA
HCI1005M-9N1J-☐A	9.10nH±5%	8	100MHz	3900MHz	0.26Ω	300mA
HCI1005M-10NJ-☐A	10.00nH±5%	8	100MHz	3900MHz	0.26Ω	300mA
HCI1005M-12NJ-☐A	12.00nH±5%	8	100MHz	3000MHz	0.40Ω	300mA
HCI1005M-15NJ-☐A	15.00nH±5%	8	100MHz	2800MHz	0.50Ω	300mA
HCI1005M-18NJ-☐A	18.00nH±5%	8	100MHz	2500MHz	0.55Ω	300mA
HCI1005M-22NJ-☐A	22.00nH±5%	8	100MHz	2200MHz	0.70Ω	300mA
HCI1005M-24NJ-☐A	24.00nH±5%	8	100MHz	2100MHz	0.70Ω	300mA
HCI1005M-27NJ-☐A	27.00nH±5%	8	100MHz	2000MHz	0.80Ω	300mA
HCI1005M-33NJ-☐A	33.00nH±5%	8	100MHz	1800MHz	0.90Ω	200mA
HCI1005M-39NJ-☐A	39.00nH±5%	8	100MHz	1600MHz	1.00Ω	150mA
HCI1005M-47NJ-☐A	47.00nH±5%	8	100MHz	1400MHz	1.20Ω	150mA
HCI1005M-56NJ-☐A	56.00nH±5%	8	100MHz	1300MHz	1.30Ω	150mA
HCI1005M-68NJ-☐A	68.00nH±5%	8	100MHz	1100MHz	1.50Ω	100mA
HCI1005M-75NJ-☐A	75.00nH±5%	8	100MHz	1080MHz	1.50Ω	100mA
HCI1005M-82NJ-☐A	82.00nH±5%	8	100MHz	1000MHz	1.60Ω	100mA
HCI1005M-R10J-☐A	100.00nH±5%	8	100MHz	900MHz	2.00Ω	100mA

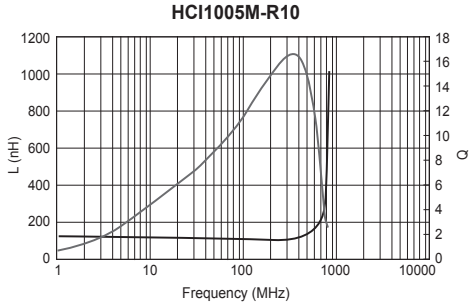
HCI1005M-1N0



HCI1005M-6N8



HCI1005M-R10



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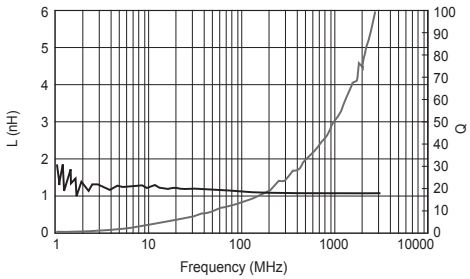
HCI Series

Electrical Characteristics

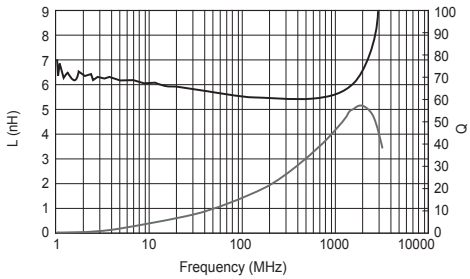
AEC Q200

Part Number	Inductance	Q (Min.)	Test Frequency	Self Resonance Frequency (Typ.)	DC Resistance (RDC) Max.	Rated Current (IDC) Max.
HCI1608M Series						
HCI1608M-1N0S-☐A	1.00nH±0.3nH	8	100MHz	10000MHz	0.10Ω	600mA
HCI1608M-1N2S-☐A	1.20nH±0.3nH	8	100MHz	10000MHz	0.10Ω	600mA
HCI1608M-1N5S-☐A	1.50nH±0.3nH	8	100MHz	8000MHz	0.10Ω	600mA
HCI1608M-1N8S-☐A	1.80nH±0.3nH	8	100MHz	8000MHz	0.10Ω	600mA
HCI1608M-2N2S-☐A	2.20nH±0.3nH	8	100MHz	7200MHz	0.10Ω	600mA
HCI1608M-2N7S-☐A	2.70nH±0.3nH	10	100MHz	6200MHz	0.10Ω	600mA
HCI1608M-3N0S-☐A	3.00nH±0.3nH	10	100MHz	5200MHz	0.12Ω	600mA
HCI1608M-3N3S-☐A	3.30nH±0.3nH	10	100MHz	5200MHz	0.12Ω	600mA
HCI1608M-3N9S-☐A	3.90nH±0.3nH	10	100MHz	5000MHz	0.14Ω	600mA
HCI1608M-4N7S-☐A	4.70nH±0.3nH	10	100MHz	4750MHz	0.16Ω	600mA
HCI1608M-5N6S-☐A	5.60nH±0.3nH	10	100MHz	4100MHz	0.18Ω	600mA
HCI1608M-6N8J-☐A	6.80nH±5%	10	100MHz	3750MHz	0.22Ω	600mA
HCI1608M-8N2J-☐A	8.20nH±5%	10	100MHz	3300MHz	0.24Ω	600mA
HCI1608M-10NJ-☐A	10.00nH±5%	12	100MHz	3000MHz	0.26Ω	600mA
HCI1608M-12NJ-☐A	12.00nH±5%	12	100MHz	2600MHz	0.28Ω	600mA
HCI1608M-15NJ-☐A	15.00nH±5%	12	100MHz	2500MHz	0.32Ω	600mA
HCI1608M-18NJ-☐A	18.00nH±5%	12	100MHz	2400MHz	0.35Ω	600mA
HCI1608M-22NJ-☐A	22.00nH±5%	12	100MHz	2000MHz	0.40Ω	500mA
HCI1608M-27NJ-☐A	27.00nH±5%	12	100MHz	1900MHz	0.45Ω	500mA
HCI1608M-33NJ-☐A	33.00nH±5%	12	100MHz	1600MHz	0.55Ω	400mA
HCI1608M-39NJ-☐A	39.00nH±5%	12	100MHz	1400MHz	0.60Ω	400mA
HCI1608M-47NJ-☐A	47.00nH±5%	12	100MHz	1300MHz	0.70Ω	400mA
HCI1608M-56NJ-☐A	56.00nH±5%	12	100MHz	1100MHz	0.75Ω	400mA
HCI1608M-62NJ-☐A	62.00nH±5%	12	100MHz	1050MHz	0.85Ω	400mA
HCI1608M-68NJ-☐A	68.00nH±5%	12	100MHz	1050MHz	0.85Ω	400mA
HCI1608M-82NJ-☐A	82.00nH±5%	12	100MHz	900MHz	1.00Ω	300mA
HCI1608M-R10J-☐A	100.00nH±5%	12	100MHz	770MHz	1.20Ω	300mA
HCI1608M-R12J-☐A	120.00nH±5%	8	50MHz	650MHz	1.30Ω	300mA
HCI1608M-R15J-☐A	150.00nH±5%	8	50MHz	550MHz	1.70Ω	250mA
HCI1608M-R18J-☐A	180.00nH±5%	8	50MHz	520MHz	1.90Ω	250mA
HCI1608M-R22J-☐A	220.00nH±5%	8	50MHz	500MHz	2.00Ω	250mA
HCI1608M-R27J-☐A	270.00nH±5%	8	50MHz	470MHz	2.20Ω	150mA
HCI1608M-R33J-☐A	330.00nH±5%	8	50MHz	320MHz	2.80Ω	100mA
HCI1608M-R39J-☐A	390.00nH±5%	8	50MHz	300MHz	3.00Ω	100mA

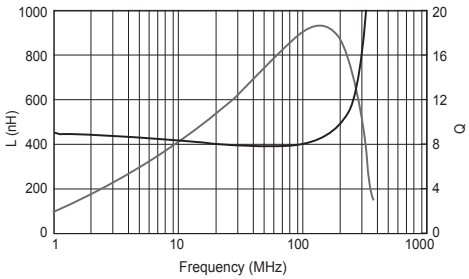
HCI1608M-1N0



HCI1608M-5N6



HCI1608M-R39



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