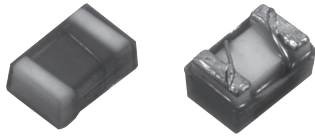




SMD Wire Wound Chip Inductor

WHI Series



Features

- Ceramic core wire wound construction
- High reliability due to ceramic wire wound construction
- High frequency application

Application

- RF products for cellular [phones, GPS receiver, Base Station, Repeater, Wireless LAN / Mouse / Keyboard / earphone, remote control, security system and other RF modules.

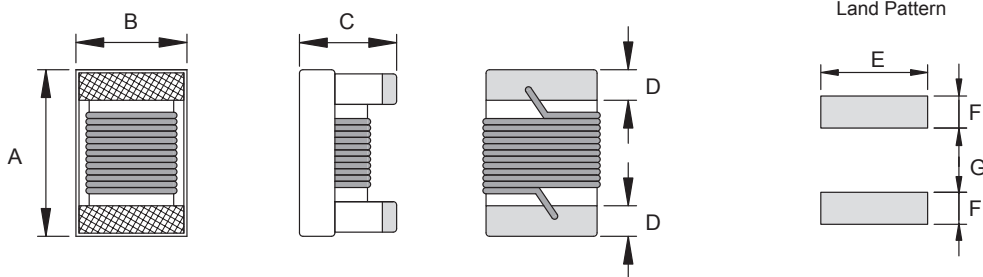
Part Numbering

WHI 1608 C - 1N6 J - □ A

① ② ③ ④ ⑤ ⑥ ⑦

- 1 Product Group
- 2 Dimension Code
- 3 Type Code
- 4 Inductance Code: N means decimal point
Ex: 1N6→1.6nH
- 5 Inductance Tolerance J=±5%, K=±10%
- 6 Control Code
- 7 Automobile Code

Shapes and Dimension



Unit: mm

Type	A	B	C	D	E	F	G
WHI0603	0.58 (Max.)	0.46 (Max.)	0.45 (Max.)	0.10 (Typ.)	0.46	0.18	0.23
WHI1005	1.19 (Max.)	0.70 (Max.)	0.66 (Max.)	0.23 (Typ.)	0.66	0.36	0.46
WHI1608	1.80 (Max.)	1.12 (Max.)	1.02 (Max.)	0.33 (Typ.)	1.02	0.64	0.64

General Technical Data

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

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SMD Wire Wound Chip Inductor

WHI Series

Electrical Characteristics

Part Number	Inductance	Test Frequency	DC Resistance (RDC) Max.	Rated Current (IDC) Max.	Q (Min.)	Self-Resonant Frequency (SRF) Typ.
WHI0603C Series						
WHI0603C-0N5K-□	0.50nH±10%	250MHz	0.020Ω	1250mA	4	23.5GHz
WHI0603C-0N6K-□	0.60nH±10%	250MHz	0.030Ω	1000mA	6	24.5GHz
WHI0603C-1N2J-□	1.20nH±5%	250MHz	0.042Ω	870mA	13	17.9GHz
WHI0603C-1N3J-□	1.30nH±5%	250MHz	0.048Ω	820mA	11	17.6GHz
WHI0603C-1N4J-□	1.40nH±5%	250MHz	0.080Ω	630mA	14	17.0GHz
WHI0603C-1N5J-□	1.50nH±5%	250MHz	0.090Ω	600mA	11	17.0GHz
WHI0603C-2N2J-□	2.20nH±5%	250MHz	0.070Ω	700mA	15	16.7GHz
WHI0603C-2N3J-□	2.30nH±5%	250MHz	0.070Ω	670mA	18	16.5GHz
WHI0603C-2N4J-□	2.40nH±5%	250MHz	0.082Ω	620mA	13	13.0GHz
WHI0603C-2N5J-□	2.50nH±5%	250MHz	0.165Ω	440mA	16	12.5GHz
WHI0603C-3N3J-□	3.30nH±5%	250MHz	0.080Ω	630mA	14	12.8GHz
WHI0603C-3N4J-□	3.40nH±5%	250MHz	0.080Ω	630mA	11	12.7GHz
WHI0603C-3N5J-□	3.50nH±5%	250MHz	0.080Ω	630mA	16	12.4GHz
WHI0603C-3N6J-□	3.60nH±5%	250MHz	0.105Ω	550mA	18	12.5GHz
WHI0603C-3N7J-□	3.70nH±5%	250MHz	0.105Ω	550mA	15	10.6GHz
WHI0603C-3N8J-□	3.80nH±5%	250MHz	0.180Ω	420mA	16	10.2GHz
WHI0603C-3N9J-□	3.90nH±5%	250MHz	0.240Ω	360mA	12	11.2GHz
WHI0603C-4N8J-□	4.80nH±5%	250MHz	0.096Ω	570mA	17	11.0GHz
WHI0603C-4N9J-□	4.90nH±5%	250MHz	0.130Ω	510mA	18	11.7GHz
WHI0603C-5N0J-□	5.00nH±5%	250MHz	0.130Ω	510mA	18	11.5GHz
WHI0603C-5N1J-□	5.10nH±5%	250MHz	0.130Ω	510mA	18	11.1GHz
WHI0603C-5N2J-□	5.20nH±5%	250MHz	0.170Ω	430mA	18	10.0GHz
WHI0603C-5N3J-□	5.30nH±5%	250MHz	0.130Ω	510mA	18	10.6GHz
WHI0603C-5N4J-□	5.40nH±5%	250MHz	0.130Ω	510mA	18	10.2GHz
WHI0603C-5N5J-□	5.50nH±5%	250MHz	0.285Ω	330mA	16	9.5GHz
WHI0603C-6N7J-□	6.70nH±5%	250MHz	0.150Ω	460mA	18	6.8GHz
WHI0603C-6N8J-□	6.80nH±5%	250MHz	0.150Ω	460mA	18	9.5GHz
WHI0603C-6N9J-□	6.90nH±5%	250MHz	0.150Ω	460mA	18	9.3GHz
WHI0603C-7N0J-□	7.00nH±5%	250MHz	0.210Ω	390mA	18	6.7GHz
WHI0603C-7N1J-□	7.10nH±5%	250MHz	0.250Ω	390mA	18	9.5GHz
WHI0603C-7N2J-□	7.20nH±5%	250MHz	0.250Ω	390mA	18	9.4GHz
WHI0603C-7N3J-□	7.30nH±5%	250MHz	0.250Ω	390mA	18	9.3GHz
WHI0603C-7N4J-□	7.40nH±5%	250MHz	0.250Ω	390mA	18	9.1GHz
WHI0603C-7N5J-□	7.50nH±5%	250MHz	0.340Ω	300mA	15	6.8GHz
WHI0603C-7N6J-□	7.60nH±5%	250MHz	0.300Ω	340mA	17	9.3GHz
WHI0603C-7N7J-□	7.70nH±5%	250MHz	0.300Ω	340mA	17	9.2GHz
WHI0603C-7N8J-□	7.80nH±5%	250MHz	0.300Ω	340mA	17	9.2GHz
WHI0603C-7N9J-□	7.90nH±5%	250MHz	0.300Ω	340mA	17	9.1GHz
WHI0603C-8N0J-□	8.00nH±5%	250MHz	0.300Ω	340mA	17	9.2GHz
WHI0603C-8N1J-□	8.10nH±5%	250MHz	0.300Ω	340mA	17	9.1GHz
WHI0603C-8N2J-□	8.20nH±5%	250MHz	0.270Ω	340mA	17	6.4GHz
WHI0603C-8N3J-□	8.30nH±5%	250MHz	0.300Ω	340mA	17	8.9GHz
WHI0603C-8N4J-□	8.40nH±5%	250MHz	0.380Ω	300mA	15	8.9GHz
WHI0603C-8N5J-□	8.50nH±5%	250MHz	0.380Ω	300mA	15	8.9GHz

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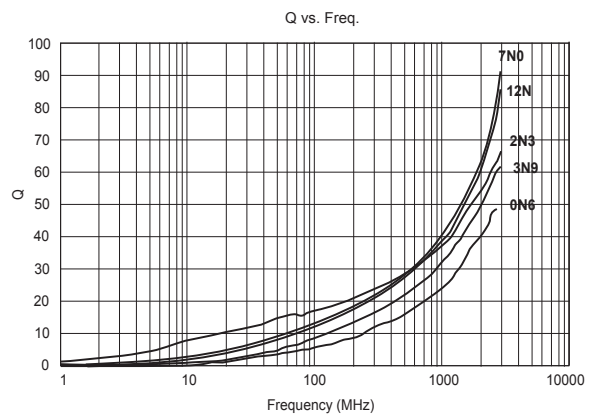
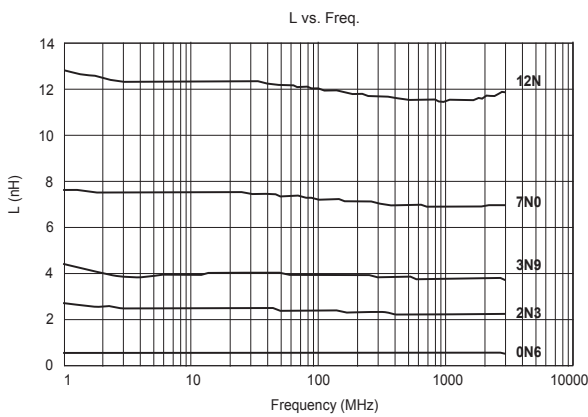
SMD Wire Wound Chip Inductor

WHI Series

Electrical Characteristics

Part Number	Inductance	Test Frequency	DC Resistance (RDC) Max.	Rated Current (IDC) Max.	Q (Min.)	Self-Resonant Frequency (SRF) Typ.
WHI0603C Series						
WHI0603C-8N7J-□	8.70nH±5%	250MHz	0.380Ω	300mA	15	6.3GHz
WHI0603C-9N0J-□	9.00nH±5%	250MHz	0.380Ω	300mA	15	6.4GHz
WHI0603C-9N4J-□	9.40nH±5%	250MHz	0.400Ω	280mA	16	6.4GHz
WHI0603C-9N6J-□	9.60nH±5%	250MHz	0.400Ω	280mA	16	6.2GHz
WHI0603C-11NJ-□	11.00nH±5%	250MHz	0.440Ω	280mA	16	5.7GHz
WHI0603C-12NJ-□	12.00nH±5%	250MHz	0.360Ω	300mA	17	5.6GHz
WHI0603C-13NJ-□	13.00nH±5%	250MHz	0.500Ω	270mA	16	6.7GHz
WHI0603C-14NJ-□	14.00nH±5%	250MHz	0.500Ω	270mA	16	5.1GHz

WHI0603C Series



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SMD Wire Wound Chip Inductor

WHI Series

Electrical Characteristics

Part Number	Inductance	Test Frequency	DC Resistance (RDC) Max.	Rated Current (IDC) Max.	Q (Min.)	Self-Resonant Frequency (SRF) Min.
WHI1005C Series						
WHI1005C-1N0J-□	1.00nH±5%	250MHz	0.045Ω	1360mA	16	12700MHz
WHI1005C-1N9J-□	1.90nH±5%	250MHz	0.070Ω	1040mA	16	11300MHz
WHI1005C-2N0J-□	2.00nH±5%	250MHz	0.070Ω	1040mA	16	11100MHz
WHI1005C-2N2J-□	2.20nH±5%	250MHz	0.070Ω	960mA	19	10800MHz
WHI1005C-2N4J-□	2.40nH±5%	250MHz	0.068Ω	790mA	15	10500MHz
WHI1005C-2N7J-□	2.70nH±5%	250MHz	0.120Ω	640mA	16	10400MHz
WHI1005C-3N3J-□	3.30nH±5%	250MHz	0.066Ω	840mA	19	7000MHz
WHI1005C-3N6J-□	3.60nH±5%	250MHz	0.066Ω	840mA	19	6800MHz
WHI1005C-3N9J-□	3.90nH±5%	250MHz	0.066Ω	840mA	19	6000MHz
WHI1005C-4N3J-□	4.30nH±5%	250MHz	0.091Ω	700mA	18	6000MHz
WHI1005C-4N7J-□	4.70nH±5%	250MHz	0.130Ω	640mA	15	4770MHz
WHI1005C-5N1J-□	5.10nH±5%	250MHz	0.083Ω	800mA	20	4800MHz
WHI1005C-5N6J-□	5.60nH±5%	250MHz	0.083Ω	760mA	20	4800MHz
WHI1005C-6N2J-□	6.20nH±5%	250MHz	0.083Ω	760mA	20	4800MHz
WHI1005C-6N8J-□	6.80nH±5%	250MHz	0.083Ω	680mA	20	4800MHz
WHI1005C-7N5J-□	7.50nH±5%	250MHz	0.100Ω	680mA	22	4800MHz
WHI1005C-8N2J-□	8.20nH±5%	250MHz	0.100Ω	680mA	22	4400MHz
WHI1005C-8N7J-□	8.70nH±5%	250MHz	0.200Ω	480mA	18	4100MHz
WHI1005C-9N0J-□	9.00nH±5%	250MHz	0.100Ω	680mA	22	4160MHz
WHI1005C-9N1J-□	9.10nH±5%	250MHz	0.100Ω	680mA	22	4160MHz
WHI1005C-9N5J-□	9.50nH±5%	250MHz	0.200Ω	480mA	18	4000MHz
WHI1005C-10NJ-□	10.00nH±5%	250MHz	0.200Ω	480mA	21	3900MHz
WHI1005C-11NJ-□	11.00nH±5%	250MHz	0.120Ω	640mA	24	3680MHz
WHI1005C-12NJ-□	12.00nH±5%	250MHz	0.120Ω	640mA	24	3600MHz
WHI1005C-13NJ-□	13.00nH±5%	250MHz	0.210Ω	440mA	24	3450MHz
WHI1005C-15NJ-□	15.00nH±5%	250MHz	0.170Ω	560mA	24	3280MHz
WHI1005C-16NJ-□	16.00nH±5%	250MHz	0.220Ω	560mA	24	3100MHz
WHI1005C-18NJ-□	18.00nH±5%	250MHz	0.230Ω	420mA	25	3100MHz
WHI1005C-19NJ-□	19.00nH±5%	250MHz	0.200Ω	480mA	24	3040MHz
WHI1005C-20NJ-□	20.00nH±5%	250MHz	0.250Ω	420mA	25	3000MHz
WHI1005C-22NJ-□	22.00nH±5%	250MHz	0.300Ω	400mA	25	2800MHz
WHI1005C-23NJ-□	23.00nH±5%	250MHz	0.300Ω	400mA	22	2720MHz
WHI1005C-24NJ-□	24.00nH±5%	250MHz	0.300Ω	400mA	25	2700MHz
WHI1005C-27NJ-□	27.00nH±5%	250MHz	0.300Ω	400mA	24	2480MHz
WHI1005C-30NJ-□	30.00nH±5%	250MHz	0.350Ω	400mA	25	2350MHz
WHI1005C-33NJ-□	33.00nH±5%	250MHz	0.400Ω	400mA	24	2350MHz
WHI1005C-36NJ-□	36.00nH±5%	250 MHz	0.440Ω	320mA	24	2320MHz
WHI1005C-39NJ-□	39.00nH±5%	250 MHz	0.550Ω	200mA	25	2100MHz
WHI1005C-40NJ-□	40.00nH±5%	250 MHz	0.650Ω	320mA	24	2240MHz
WHI1005C-43NJ-□	43.00nH±5%	250 MHz	0.810Ω	100mA	25	2030MHz
WHI1005C-47NJ-□	47.00nH±5%	250 MHz	0.830Ω	150mA	20	2100MHz
WHI1005C-51NJ-□	51.00nH±5%	250 MHz	0.820Ω	100mA	25	1750MHz
WHI1005C-56NJ-□	56.00nH±5%	250 MHz	0.970Ω	100mA	22	1760MHz
WHI1005C-68NJ-□	68.00nH±5%	250 MHz	1.120Ω	100mA	22	1620MHz

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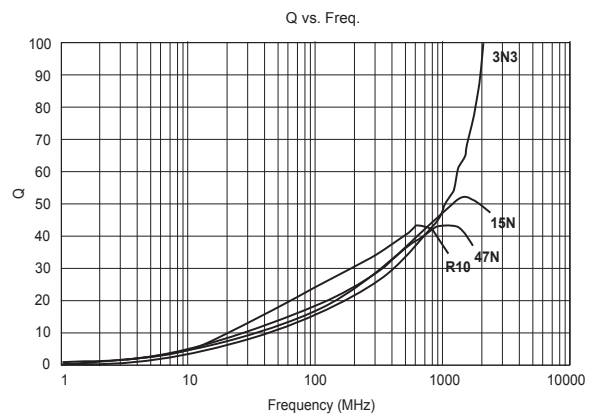
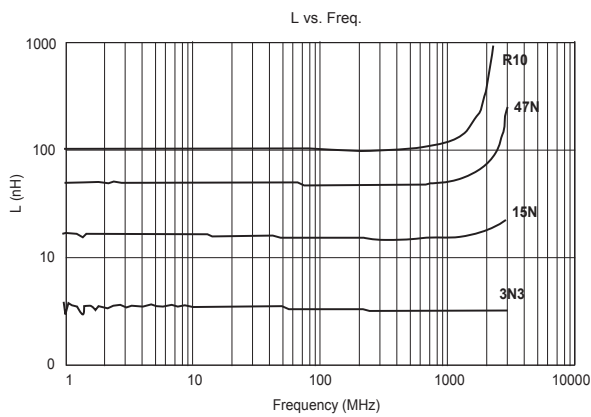
SMD Wire Wound Chip Inductor

WHI Series

Electrical Characteristics

Part Number	Inductance	Test Frequency	DC Resistance (RDC) Max.	Rated Current (IDC) Max.	Q (Min.)	Self-Resonant Frequency (SRF) Min.
WHI1005C Series						
WHI1005C-82NJ-□	82.00nH±5%	250MHz	1.550Ω	50mA	20	1260MHz
WHI1005C-R10J-□	100.00nH±5%	250MHz	2.000Ω	30mA	20	1160MHz

WHI1005C Series



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SMD Wire Wound Chip Inductor

WHI Series

Electrical Characteristics

AEC
Q200

Part Number	Inductance	Test Frequency	DC Resistance (RDC) Max.	Rated Current (IDC) Max.	Q (Min.)	Self-Resonant Frequency (SRF) Min.
WHI1608C Series						
WHI1608C-1N6J-□A	1.60nH±5%	250MHz	0.030Ω	700mA	24	12500MHz
WHI1608C-1N8J-□A	1.80nH±5%	250MHz	0.045Ω	700mA	16	12500MHz
WHI1608C-2N2J-□A	2.20nH±5%	250MHz	0.250Ω	700mA	13	12500MHz
WHI1608C-3N3J-□A	3.30nH±5%	250MHz	0.045Ω	700mA	35	5900MHz
WHI1608C-3N6J-□A	3.60nH±5%	250MHz	0.063Ω	700mA	22	5900MHz
WHI1608C-3N9J-□A	3.90nH±5%	250MHz	0.080Ω	700mA	22	6900MHz
WHI1608C-4N3J-□A	4.30nH±5%	250MHz	0.063Ω	700mA	22	5900MHz
WHI1608C-4N7J-□A	4.70nH±5%	250MHz	0.116Ω	700mA	20	5800MHz
WHI1608C-5N1J-□A	5.10nH±5%	250MHz	0.140Ω	700mA	20	5700MHz
WHI1608C-5N6J-□A	5.60nH±5%	250MHz	0.170Ω	700mA	20	5800MHz
WHI1608C-6N3J-□A	6.30nH±5%	250MHz	0.140Ω	700mA	20	5700MHz
WHI1608C-6N8J-□A	6.80nH±5%	250MHz	0.110Ω	700mA	27	5800MHz
WHI1608C-7N5J-□A	7.50nH±5%	250MHz	0.106Ω	700mA	28	4800MHz
WHI1608C-8N2J-□A	8.20nH±5%	250MHz	0.109Ω	700mA	28	4700MHz
WHI1608C-8N7J-□A	8.70nH±5%	250MHz	0.109Ω	700mA	28	4600MHz
WHI1608C-9N5J-□A	9.50nH±5%	250MHz	0.135Ω	700mA	28	5400MHz
WHI1608C-10NJ-□A	10.00nH±5%	250MHz	0.130Ω	700mA	31	4800MHz
WHI1608C-11NJ-□A	11.00nH±5%	250MHz	0.086Ω	700mA	33	4000MHz
WHI1608C-12NJ-□A	12.00nH±5%	250MHz	0.130Ω	700mA	35	4000MHz
WHI1608C-15NJ-□A	15.00nH±5%	250MHz	0.170Ω	700mA	35	4000MHz
WHI1608C-16NJ-□A	16.00nH±5%	250MHz	0.104Ω	700mA	34	3300MHz
WHI1608C-18NJ-□A	18.00nH±5%	250MHz	0.170Ω	700mA	35	3100MHz
WHI1608C-20NJ-□A	20.00nH±5%	250MHz	0.190Ω	700mA	38	3000MHz
WHI1608C-22NJ-□A	22.00nH±5%	250MHz	0.190Ω	700mA	38	3000MHz
WHI1608C-23NJ-□A	23.00nH±5%	250MHz	0.190Ω	700mA	38	2850MHz
WHI1608C-24NJ-□A	24.00nH±5%	250MHz	0.135Ω	700mA	37	2650MHz
WHI1608C-27NJ-□A	27.00nH±5%	250MHz	0.220Ω	600mA	40	2800MHz
WHI1608C-30NJ-□A	30.00nH±5%	250MHz	0.144Ω	600mA	37	2250MHz
WHI1608C-33NJ-□A	33.00nH±5%	250MHz	0.220Ω	600mA	40	2300MHz
WHI1608C-36NJ-□A	36.00nH±5%	250MHz	0.250Ω	600mA	38	2080MHz
WHI1608C-39NJ-□A	39.00nH±5%	250MHz	0.250Ω	600mA	40	2200MHz
WHI1608C-43NJ-□A	43.00nH±5%	250MHz	0.280Ω	600mA	39	2000MHz
WHI1608C-47NJ-□A	47.00nH±5%	200MHz	0.280Ω	600mA	38	2000MHz
WHI1608C-51NJ-□A	51.00nH±5%	200MHz	0.310Ω	600mA	38	1900MHz
WHI1608C-56NJ-□A	56.00nH±5%	200MHz	0.310Ω	600mA	38	1900MHz
WHI1608C-68NJ-□A	68.00nH±5%	200MHz	0.340Ω	600mA	37	1700MHz
WHI1608C-72NJ-□A	72.00nH±5%	150MHz	0.490Ω	400mA	34	1700MHz
WHI1608C-82NJ-□A	82.00nH±5%	150MHz	0.540Ω	400mA	34	1700MHz
WHI1608C-91NJ-□A	91.00nH±5%	150MHz	0.580Ω	400mA	34	1400MHz
WHI1608C-R10J-□A	100.00nH±5%	150MHz	0.580Ω	400mA	34	1400MHz
WHI1608C-R11J-□A	110.00nH±5%	150MHz	0.610Ω	300mA	32	1350MHz
WHI1608C-R12J-□A	120.00nH±5%	150MHz	0.750Ω	300mA	32	1300MHz
WHI1608C-R15J-□A	150.00nH±5%	150MHz	0.920Ω	280mA	28	990MHz

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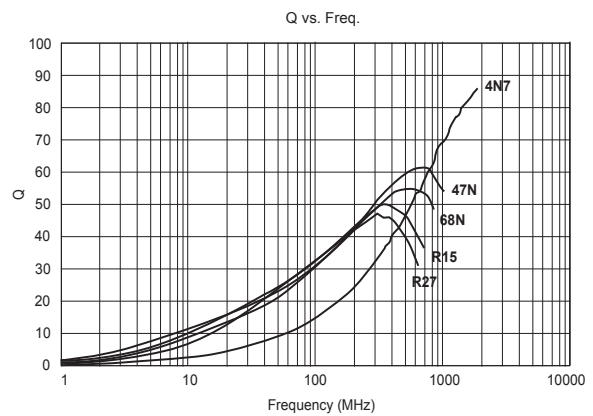
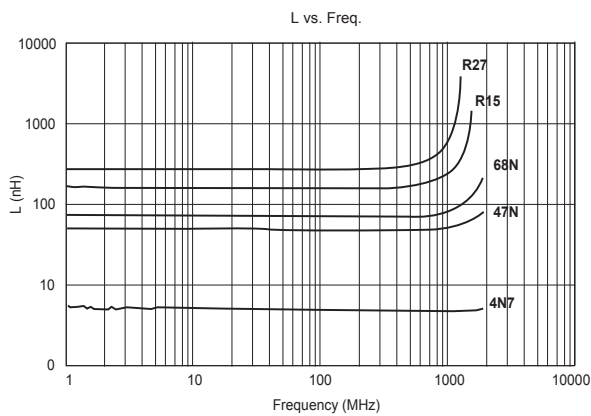
SMD Wire Wound Chip Inductor

WHI Series

Electrical Characteristics

Part Number	Inductance	Test Frequency	DC Resistance (RDC) Max.	Rated Current (IDC) Max.	Q (Min.)	Self-Resonant Frequency (SRF) Min.
WHI1608C Series						
WHI1608C-R16J-□A	160.00nH±5%	100MHz	1.250Ω	240mA	25	990MHz
WHI1608C-R18J-□A	180.00nH±5%	100MHz	1.250Ω	240mA	25	990MHz
WHI1608C-R20J-□A	200.00nH±5%	100MHz	2.100Ω	200mA	25	900MHz
WHI1608C-R22J-□A	220.00nH±5%	100MHz	2.100Ω	200mA	25	900MHz
WHI1608C-R27J-□A	270.00nH±5%	100MHz	2.800Ω	170mA	24	900MHz
WHI1608C-R33J-□A	330.00nH±5%	100MHz	3.890Ω	100mA	25	900MHz
WHI1608C-R39J-□A	390.00nH±5%	100MHz	4.350Ω	100mA	25	900MHz
WHI1608C-R47J-□A	470.00nH±5%	100MHz	4.500Ω	100mA	25	500MHz
WHI1608C-R56J-□A	560.00nH±5%	100MHz	4.700Ω	90mA	23	460MHz

WHI0608C Series



• The specifications are subject to change or our products in it may be discontinued without advance notice. Please check with our sales representatives or product engineers before ordering.
 • The catalog has only typical specifications because there is no space for detailed specifications. Therefore, please approve our product specifications or transact the approval sheet for product specifications before ordering.