

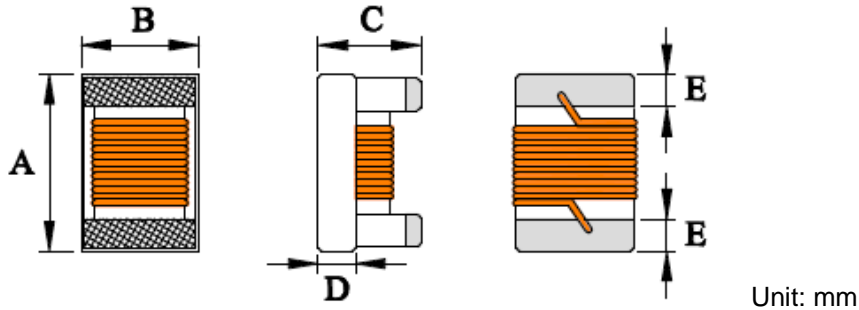
WHI1608C Series Specification

SMD Wire Wound Chip Inductor

APPLICATION

Smart phones, tablet terminals, tuners, LCD-TVs, PDP-TVs, audio equipment, computers, signal processing for modules etc.

1. Shapes and Dimensions



Type	A	B	C	D	E
WHI1608C	1.80 (Max.)	1.20 (Max.)	1.20 (Max.)	0.38 (Ref.)	0.35±0.1

2. Ordering / Part Number Information

WHI 1608 C - 2N0 □
 (1) (2) (3) (4) (5)

(1) Product Group

(2) Dimension Code

(3) Type Code

(4) Inductance Code : N means decimal point

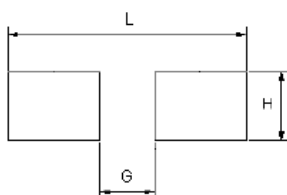
Ex : 2N0 → 2.0nH

(5) Inductance Tolerance

S=±0.3nH, J=±5%

3. Recommended Soldering Condition

3-1. Recommended Land Pattern

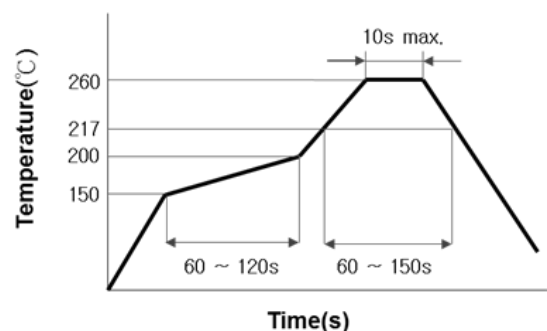


Unit : mm

Symbol	Dimension
L	1.92
G	0.90
H	1.02

The Recommended Land pattern is for reference only.
 Please consult your manufacturing partners to ensure your company's PCB design guidelines are met

3-2. Recommended Soldering Profile



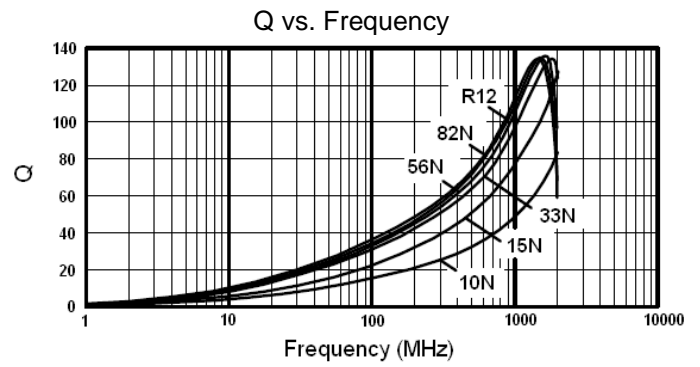
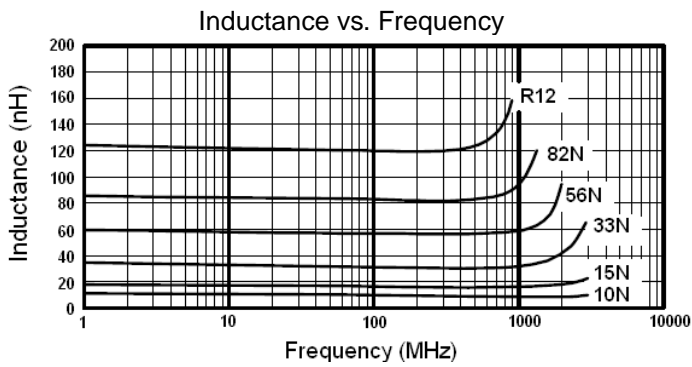
4. Electrical Characteristics

4-1. Electrical Specification

Part Number	Inductance (L) @0.1V	L Test Freq.	Q @250MHz Min.	DC Resistance (R _{DC}) Max.	Rated Current (I _{DC}) Max.	Self-Resonant Frequency (SRF) Min.
WHI1608C-2N0S	2.0nH±0.3nH	250MHz	13	0.07Ω	700mA	8000MHz
WHI1608C-3N9S	3.9nH±0.3nH	250MHz	22	0.07Ω	700mA	6900MHz
WHI1608C-4N7J	4.7nH±5%	250MHz	20	0.12Ω	700mA	5800MHz
WHI1608C-6N8J	6.8nH±5%	250MHz	27	0.08Ω	700mA	5800MHz
WHI1608C-8N2J	8.2nH±5%	250MHz	30	0.13Ω	700mA	4200MHz
WHI1608C-10NJ	10.0nH±5%	250MHz	31	0.13Ω	700mA	4800MHz
WHI1608C-12NJ	12.0nH±5%	250MHz	35	0.13Ω	700mA	4000MHz
WHI1608C-15NJ	15.0nH±5%	250MHz	35	0.13Ω	700mA	4000MHz
WHI1608C-18NJ	18.0nH±5%	250MHz	35	0.16Ω	700mA	3100MHz
WHI1608C-22NJ	22.0nH±5%	250MHz	38	0.23Ω	700mA	3000MHz
WHI1608C-24NJ	24.0nH±5%	250MHz	38	0.13Ω	700mA	2800MHz
WHI1608C-27NJ	27.0nH±5%	250MHz	40	0.14Ω	600mA	2800MHz
WHI1608C-33NJ	33.0nH±5%	250MHz	40	0.22Ω	600mA	2300MHz
WHI1608C-39NJ	39.0nH±5%	250MHz	40	0.30Ω	600mA	2200MHz
WHI1608C-47NJ	47.0nH±5%	200MHz	38	0.35Ω	600mA	2000MHz
WHI1608C-56NJ	56.0nH±5%	200MHz	38	0.37Ω	600mA	1900MHz
WHI1608C-68NJ	68.0nH±5%	200MHz	37	0.43Ω	600mA	1700MHz
WHI1608C-72NJ	72.0nH±5%	150MHz	34	0.42Ω	400mA	1700MHz
WHI1608C-82NJ	82.0nH±5%	150MHz	34	0.71Ω	400mA	1700MHz
WHI1608C-R10J	100.0nH±5%	150MHz	34	0.78Ω	400mA	1400MHz
WHI1608C-R12J	120.0nH±5%	150MHz	32	0.84Ω	300mA	1300MHz
WHI1608C-R15J	150.0nH±5%	150MHz	28	0.96Ω	280mA	990MHz
WHI1608C-R18J	180.0nH±5%	100MHz	25	1.52Ω	240mA	990MHz
WHI1608C-R22J	220.0nH±5%	100MHz	25	2.02Ω	200mA	900MHz
WHI1608C-R27J	270.0nH±5%	100MHz	24	2.36Ω	170mA	900MHz
WHI1608C-R33J	330.0nH±5%	100MHz	24	3.40Ω	185mA	700MHz
WHI1608C-R39J	390.0nH±5%	100MHz	24	3.60Ω	100mA	900MHz

Note1. Rated Current for Inductance becomes 20% lower than its initial value
(Test by a short period of time to minimize the self-heating effect of the component.)

4-2. Typical Electrical Curve



4-3. Operating Temperature Range

-40°C to +125°C (Including self - temperature rise)

4-4. Storage Temperature Range

Store this product under the condition of 5°C to 40°C, 20% to 70%RH and use within 6 months

5. Package Quantity

Standard Package Quantity : 3,000 pcs/Reel

Note

1. Please make sure that your product is has been evaluated and confirmed against your specifications when our product is mounted to your product.
2. Do not knock nor drop.
3. All the items and parameters in this product specification have been prescribed on the premise that our product is used for the purpose, under the condition and in the environment agreed upon between you and us. You are requested not to use our product deviating from such agreement.
4. Please keep the distance between transformer/coil and other components (refer to the standard IEC 950)

Reference