

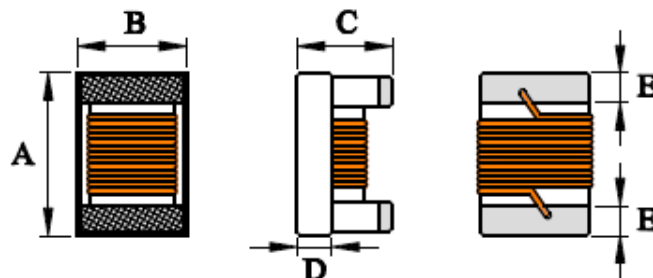
WHP1608F-xxxK Series Specification

SMD Wire Wound Chip Inductor

APPLICATION

Smart phones, tablet terminals, digital cameras, video cameras, HDDs, power supply modules, etc.

1. Shapes and Dimensions



Unit: mm

Type	A	B	C	D	E
WHP1608F	1.80 Max.	1.20 Max.	1.20 Max.	0.38 Ref.	0.35±0.10

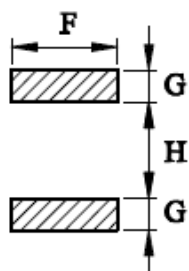
2. Ordering / Part Number Information

WHP 1608 F - R10 K
(1) (2) (3) (4) (5)

- (1) Product Group
- (2) Dimension Code
- (3) Type Code
- (4) Inductance Code
- (5) Inductance Tolerance

3. Recommended Soldering Condition

3-1. Recommended Land Pattern

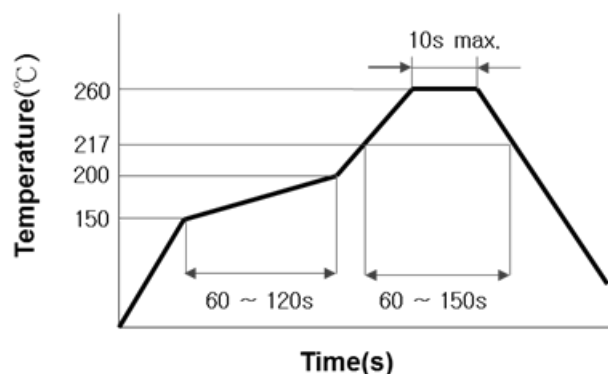


Unit : mm

Symbol	Dimension
F	1.02
G	0.50
H	0.92

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)	Q Min.	L, Q Test Freq.	DC Resistance (R _{DC}) Max.	Rated Current (I _{DC}) Max.	Self-Resonant Frequency (SRF) Min.
WHP1608F-47NK	0.047μH±10%	10	7.96MHz	0.075Ω	1400mA	1500MHz
WHP1608F-R10K	0.100μH±10%	10	7.96MHz	0.130Ω	1400mA	1150MHz
WHP1608F-R12K	0.120μH±10%	10	7.96MHz	0.150Ω	1400mA	1100MHz
WHP1608F-R15K	0.150μH±10%	10	7.96MHz	0.150Ω	1300mA	1050MHz
WHP1608F-R18K	0.180μH±10%	10	7.96MHz	0.150Ω	1300mA	950MHz
WHP1608F-R22K	0.220μH±10%	10	7.96MHz	0.150Ω	950mA	800MHz
WHP1608F-R24K	0.240μH±10%	10	7.96MHz	0.310Ω	620mA	800MHz
WHP1608F-R27K	0.270μH±10%	10	7.96MHz	0.200Ω	710mA	775MHz
WHP1608F-R33K	0.330μH±10%	10	7.96MHz	0.350Ω	620mA	725MHz
WHP1608F-R39K	0.390μH±10%	10	7.96MHz	0.390Ω	600mA	620MHz
WHP1608F-R47K	0.470μH±10%	10	7.96MHz	0.430Ω	570mA	540MHz
WHP1608F-R56K	0.560μH±10%	10	7.96MHz	0.470Ω	550mA	525MHz
WHP1608F-R68K	0.680μH±10%	10	7.96MHz	0.520Ω	470mA	460MHz
WHP1608F-R82K	0.820μH±10%	10	7.96MHz	0.690Ω	400mA	410MHz
WHP1608F-1R0K	1.000μH±10%	10	7.96MHz	0.810Ω	400mA	190MHz
WHP1608F-1R2K	1.200μH±10%	10	7.96MHz	0.870Ω	370mA	160MHz
WHP1608F-1R5K	1.500μH±10%	10	7.96MHz	0.960Ω	350mA	100MHz
WHP1608F-1R8K	1.800μH±10%	10	7.96MHz	1.100Ω	350mA	80MHz
WHP1608F-2R2K	2.200μH±10%	10	7.96MHz	1.200Ω	320mA	68MHz
WHP1608F-3R3K	3.300μH±10%	10	7.96MHz	1.500Ω	280mA	42MHz
WHP1608F-3R9K	3.900μH±10%	10	7.96MHz	1.500Ω	280mA	40MHz
WHP1608F-4R7K	4.700μH±10%	10	7.96MHz	2.100Ω	260mA	34MHz
WHP1608F-5R6K	5.600μH±10%	10	7.96MHz	2.600Ω	240mA	32MHz
WHP1608F-6R8K	6.800μH±10%	10	7.96MHz	3.100Ω	200mA	31MHz
WHP1608F-8R2K	8.200μH±10%	10	7.96MHz	4.400Ω	190mA	26MHz
WHP1608F-100K	10.00μH±10%	10	2.52MHz	4.800Ω	180mA	25MHz

Note1. L,Q Test Level: 0.5V

Note2. 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. Operating Temperature Range

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

4-3. 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 Quantity for Packaging: 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)