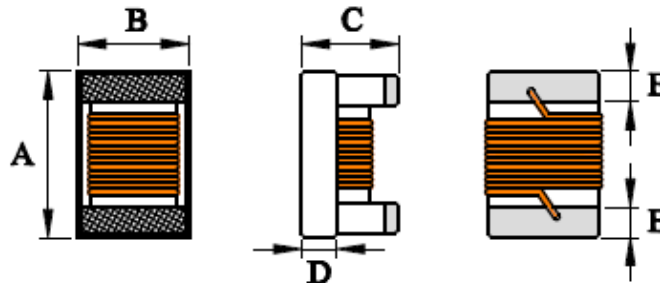


APPLICATION

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
WHP2012F	2.40 Max.	1.60 Max.	1.40 Max.	0.51 Ref.	0.44±0.1

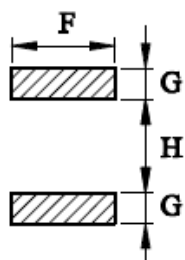
2. Ordering / Part Number Information

WHP 2012 F - R47 K
 (1) (2) (3) (4) (5)

- (1) Product Group
- (2) Dimension Code
- (3) Type Code
- (4) Inductance Code : R means decimal point
 Ex : R47 → 0.47μH
- (5) Inductance Tolerance
 K=±10%

3. Recommended Soldering Condition

3-1. Recommended Land Pattern

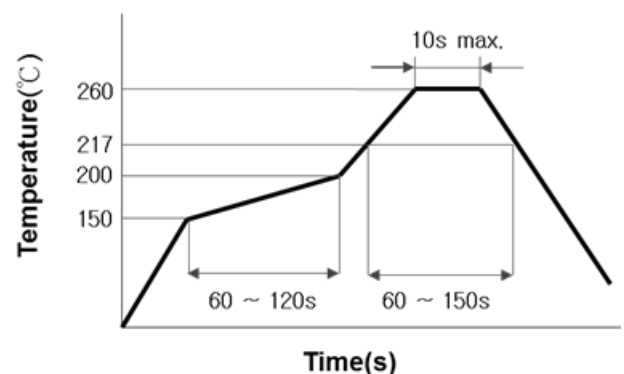


Unit : mm

Symbol	Dimension
F	1.78
G	0.80
H	1.20

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.
WHP2012F-R47K	0.47μH±10%	10	7.96MHz	0.20Ω	750mA	720MHz
WHP2012F-R56K	0.56μH±10%	10	7.96MHz	0.21Ω	730mA	665MHz
WHP2012F-R68K	0.68μH±10%	10	7.96MHz	0.28Ω	670mA	565MHz
WHP2012F-R82K	0.82μH±10%	10	7.96MHz	0.31Ω	650mA	545MHz
WHP2012F-1R0K	1.00μH±10%	10	7.96MHz	0.34Ω	615mA	525MHz
WHP2012F-1R2K	1.20μH±10%	10	7.96MHz	0.39Ω	550mA	473MHz
WHP2012F-1R5K	1.50μH±10%	10	7.96MHz	0.45Ω	520mA	300MHz
WHP2012F-1R8K	1.80μH±10%	10	7.96MHz	0.48Ω	500mA	230MHz
WHP2012F-2R2K	2.20μH±10%	10	7.96MHz	0.67Ω	420mA	215MHz
WHP2012F-2R7K	2.70μH±10%	10	7.96MHz	0.74Ω	410mA	140MHz
WHP2012F-3R3K	3.30μH±10%	10	7.96MHz	0.81Ω	385mA	95MHz
WHP2012F-3R9K	3.90μH±10%	10	7.96MHz	0.88Ω	372mA	57MHz
WHP2012F-4R7K	4.70μH±10%	10	7.96MHz	0.99Ω	345mA	51MHz
WHP2012F-5R6K	5.60μH±10%	10	7.96MHz	1.06Ω	335mA	44MHz
WHP2012F-6R8K	6.80μH±10%	10	7.96MHz	1.21Ω	315mA	39MHz
WHP2012F-8R2K	8.20μH±10%	10	7.96MHz	1.33Ω	295mA	33MHz
WHP2012F-100K	10.0μH±10%	10	2.52MHz	1.79Ω	260mA	30MHz
WHP2012F-120K	12.0μH±10%	10	2.52MHz	1.98Ω	250mA	27MHz
WHP2012F-150K	15.0μH±10%	10	2.52MHz	2.68Ω	215mA	22MHz
WHP2012F-180K	18.0μH±10%	10	2.52MHz	3.12Ω	195mA	20MHz
WHP2012F-220K	22.0μH±10%	10	2.52MHz	3.48Ω	180mA	18MHz
WHP2012F-270K	27.0μH±10%	10	2.52MHz	3.84Ω	170mA	16MHz
WHP2012F-330K	33.0μH±10%	10	2.52MHz	4.34Ω	145mA	15MHz

Note1. L,Q Test Level : 0.5V

Note2. DC 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: 2,000 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