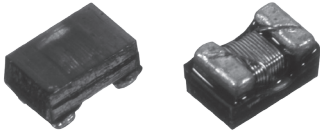




# SMD Wire Wound Chip Inductor

## WHP Series



### Features

- Ferrite core wire wound construction
- High reliability due to ceramic wire wound construction
- Small footprint as well as low profile

### Application

- Telecom and datacom applications such as xDSL, Cable Modem, Set-top Box, CATV filter/tuner, wireless LAN etc.

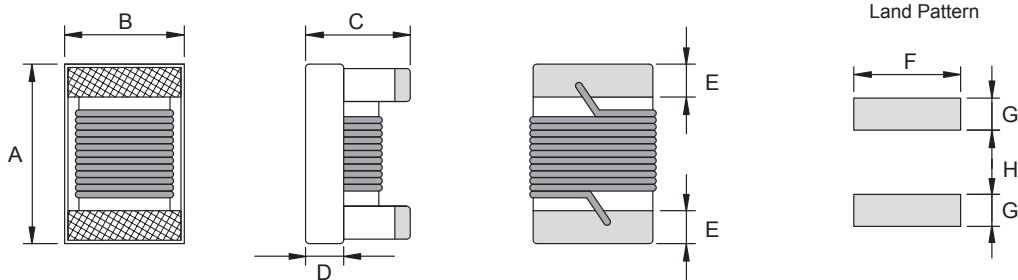
### Part Numbering

**WHP 1608 F - 1R0 K - □ A**

①      ②      ③      ④      ⑤      ⑥      ⑦

- 1 Product Group
- 2 Dimension Code
- 3 Type Code
- 4 Inductance Code: R means decimal point  
Ex: 1R0→1.0μH
- 5 Inductance Tolerance K=±10%, M=±20%
- 6 Control Code
- 7 Automobile Code

### Shapes and Dimension



Unit: mm

Type	A	B	C	D	E	F	G	H
WHP1608	1.80 (Max.)	1.20 (Max.)	1.20 (Max.)	0.38 (Typ.)	0.35±0.10	1.02	0.64	0.64
WHP2012	2.40 (Max.)	1.60 (Max.)	1.40 (Max.)	0.51 (Typ.)	0.44±0.10	1.78	0.80	1.20
WHP2520	2.90 (Max.)	2.50 (Max.)	2.10 (Max.)	1.20 (Typ.)	0.55±0.10	2.54	1.00	1.35

### General Technical Data

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

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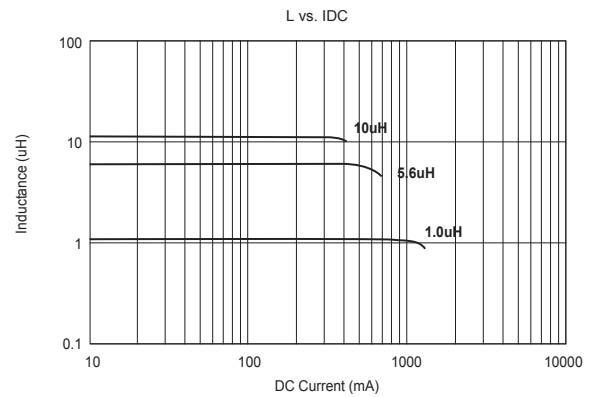
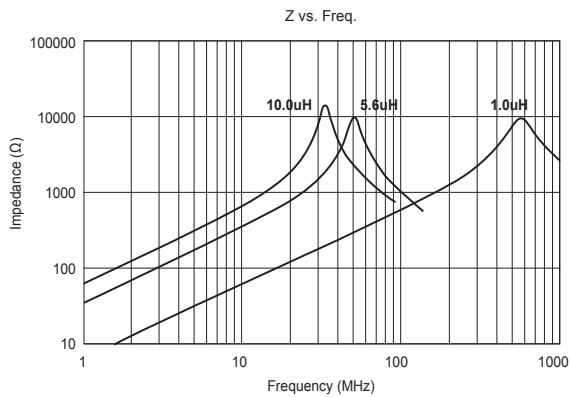
## WHP Series

### Electrical Characteristics

AEC  
Q200

Part Number	Inductance	Test Frequency	DC Resistance (RDC) Max.	Rated Current (IDC) Max.	Q (Min.)	Self Resonance Frequency (Min.)
<b>WHP1608F Series</b>						
WHP1608F-47NK-□A	0.047μH±10%	7.96MHz	0.075Ω	1400mA	10	1500MHz
WHP1608F-R10K-□A	0.100μH±10%	7.96MHz	0.130Ω	1400mA	10	1150MHz
WHP1608F-R12K-□A	0.120μH±10%	7.96MHz	0.150Ω	1400mA	10	1100MHz
WHP1608F-R15K-□A	0.150μH±10%	7.96MHz	0.150Ω	1300mA	10	1050MHz
WHP1608F-R18K-□A	0.180μH±10%	7.96MHz	0.150Ω	1300mA	10	950MHz
WHP1608F-R22K-□A	0.220μH±10%	7.96MHz	0.150Ω	950mA	10	800MHz
WHP1608F-R24K-□A	0.240μH±10%	7.96MHz	0.310Ω	620mA	10	800MHz
WHP1608F-R27K-□A	0.270μH±10%	7.96MHz	0.200Ω	710mA	10	775MHz
WHP1608F-R33K-□A	0.330μH±10%	7.96MHz	0.350Ω	620mA	10	725MHz
WHP1608F-R39K-□A	0.390μH±10%	7.96MHz	0.390Ω	600mA	10	620MHz
WHP1608F-R47K-□A	0.470μH±10%	7.96MHz	0.430Ω	570mA	10	540MHz
WHP1608F-R56K-□A	0.560μH±10%	7.96MHz	0.470Ω	550mA	10	525MHz
WHP1608F-R68K-□A	0.680μH±10%	7.96MHz	0.520Ω	470mA	10	460MHz
WHP1608F-R82K-□A	0.820μH±10%	7.96MHz	0.690Ω	400mA	10	410MHz
WHP1608F-1R0K-□A	1.000μH±10%	7.96MHz	0.810Ω	400mA	10	190MHz
WHP1608F-1R2K-□A	1.200μH±10%	7.96MHz	0.870Ω	370mA	10	160MHz
WHP1608F-1R5K-□A	1.500μH±10%	7.96MHz	0.960Ω	350mA	10	100MHz
WHP1608F-1R8K-□A	1.800μH±10%	7.96MHz	1.100Ω	350mA	10	80MHz
WHP1608F-2R2K-□A	2.200μH±10%	7.96MHz	1.200Ω	320mA	10	68MHz
WHP1608F-3R3K-□A	3.300μH±10%	7.96MHz	1.500Ω	280mA	10	42MHz
WHP1608F-3R9K-□A	3.900μH±10%	7.96MHz	1.500Ω	280mA	10	40MHz
WHP1608F-4R7K-□A	4.700μH±10%	7.96MHz	2.100Ω	260mA	10	34MHz
WHP1608F-5R6K-□A	5.600μH±10%	7.96MHz	2.600Ω	240mA	10	32MHz
WHP1608F-6R8K-□A	6.800μH±10%	7.96MHz	3.100Ω	200mA	10	31MHz
WHP1608F-8R2K-□A	8.200μH±10%	7.96MHz	4.400Ω	190mA	10	26MHz
WHP1608F-100K-□A	10.000μH±10%	2.52MHz	4.800Ω	180mA	10	25MHz

WHP1608F-Series



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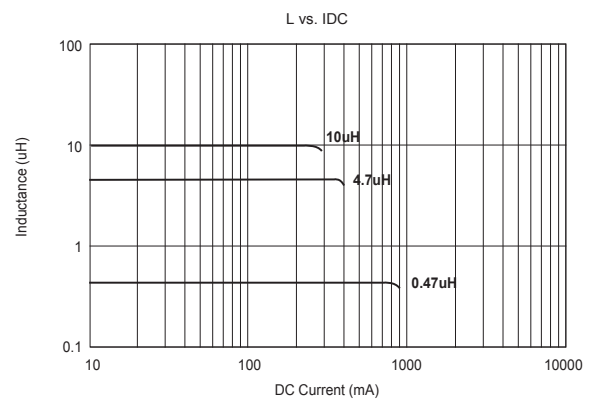
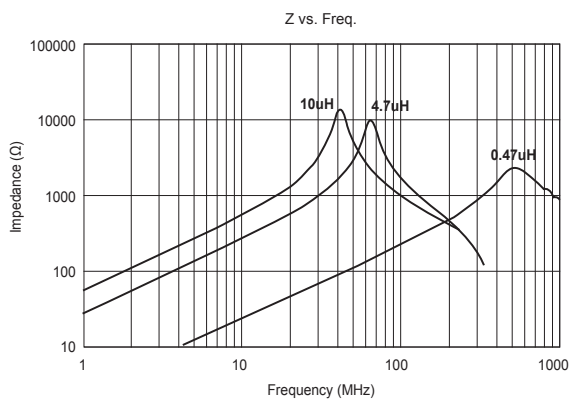
## WHP Series

### Electrical Characteristics

AEC  
Q200

Part Number	Inductance	Test Frequency	DC Resistance (RDC) Max.	Rated Current (IDC) Max.	Q (Min.)	Self Resonance Frequency (Min.)
<b>WHP2012F Series</b>						
WHP2012F-R47K-□A	0.47μH±10%	7.96MHz	0.20Ω	750mA	10	720MHz
WHP2012F-R56K-□A	0.56μH±10%	7.96MHz	0.21Ω	730mA	10	665MHz
WHP2012F-R68K-□A	0.68μH±10%	7.96MHz	0.28Ω	670mA	10	565MHz
WHP2012F-R82K-□A	0.82μH±10%	7.96MHz	0.31Ω	650mA	10	545MHz
WHP2012F-1R0K-□A	1.00μH±10%	7.96MHz	0.34Ω	615mA	10	525MHz
WHP2012F-1R2K-□A	1.20μH±10%	7.96MHz	0.39Ω	550mA	10	473MHz
WHP2012F-1R5K-□A	1.50μH±10%	7.96MHz	0.45Ω	520mA	10	300MHz
WHP2012F-1R8K-□A	1.80μH±10%	7.96MHz	0.48Ω	500mA	10	230MHz
WHP2012F-2R2K-□A	2.20μH±10%	7.96MHz	0.67Ω	420mA	10	215MHz
WHP2012F-2R7K-□A	2.70μH±10%	7.96MHz	0.74Ω	410mA	10	140MHz
WHP2012F-3R3K-□A	3.30μH±10%	7.96MHz	0.81Ω	385mA	10	95MHz
WHP2012F-3R9K-□A	3.90μH±10%	7.96MHz	0.88Ω	372mA	10	57MHz
WHP2012F-4R7K-□A	4.70μH±10%	7.96MHz	0.99Ω	345mA	10	51MHz
WHP2012F-5R6K-□A	5.60μH±10%	7.96MHz	1.06Ω	335mA	10	44MHz
WHP2012F-6R8K-□A	6.80μH±10%	7.96MHz	1.21Ω	315mA	10	39MHz
WHP2012F-8R2K-□A	8.20μH±10%	7.96MHz	1.33Ω	295mA	10	33MHz
WHP2012F-100K-□A	10.00μH±10%	2.52MHz	1.79Ω	260mA	10	30MHz
WHP2012F-120K-□A	12.00μH±10%	2.52MHz	1.98Ω	250mA	10	27MHz
WHP2012F-150K-□A	15.00μH±10%	2.52MHz	2.68Ω	215mA	10	22MHz
WHP2012F-180K-□A	18.00μH±10%	2.52MHz	3.12Ω	195mA	10	20MHz
WHP2012F-220K-□A	22.00μH±10%	2.52MHz	3.48Ω	180mA	10	18MHz
WHP2012F-270K-□A	27.00μH±10%	2.52MHz	3.84Ω	170mA	10	16MHz
WHP2012F-330K-□A	33.00μH±10%	2.52MHz	4.34Ω	145mA	10	15MHz

WHP2012F-Series



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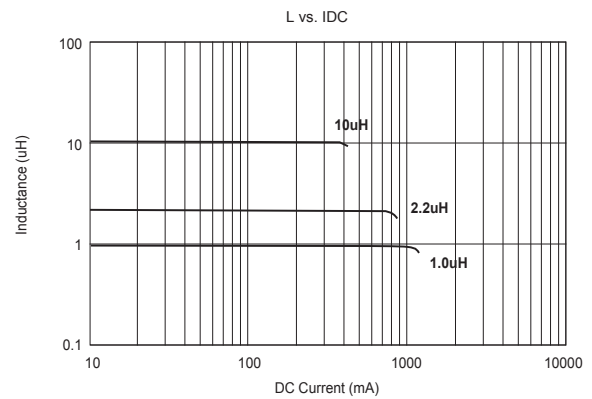
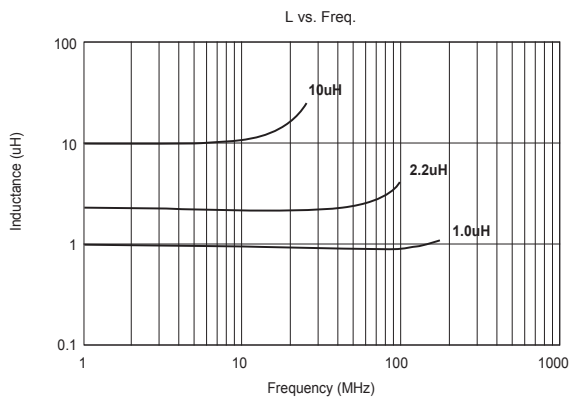
## WHP Series

### Electrical Characteristics

AEC  
Q200

Part Number	Inductance	Test Frequency	DC Resistance (RDC) Max.	Rated Current (IDC) Max.	Q (Min.)	Self Resonance Frequency (Min.)
<b>WHP2520F Series</b>						
WHP2520F-1R0K-□A	1.00μH±10%	7.96MHz	0.13Ω	1000mA	12	345MHz
WHP2520F-1R5K-□A	1.50μH±10%	7.96MHz	0.17Ω	850mA	12	100MHz
WHP2520F-2R2K-□A	2.20μH±10%	7.96MHz	0.21Ω	775mA	12	78MHz
WHP2520F-3R3K-□A	3.30μH±10%	7.96MHz	0.26Ω	715mA	12	48MHz
WHP2520F-4R7K-□A	4.70μH±10%	7.96MHz	0.52Ω	505mA	12	46MHz
WHP2520F-6R8K-□A	6.80μH±10%	7.96MHz	0.72Ω	432mA	12	33MHz
WHP2520F-8R2K-□A	8.20μH±10%	2.52MHz	0.76Ω	410mA	12	30MHz
WHP2520F-100K-□A	10.00μH±10%	2.52MHz	0.86Ω	392mA	12	28MHz
WHP2520F-150K-□A	15.00μH±10%	2.52MHz	1.09Ω	342mA	12	21MHz
WHP2520F-220K-□A	22.00μH±10%	2.52MHz	1.96Ω	260mA	12	18MHz
WHP2520F-330K-□A	33.00μH±10%	2.52MHz	2.47Ω	236mA	12	15MHz

WHP2520F-Series



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