



FEATURES

- ◆ Various high power inductors are superior high saturation
- ◆ Suitable for surface mounting equipment

APPLICATIONS

- ◆ Power supply choke for small electrical equipments such as VTR, LCD display, Notebook, communication equipment, and so on.

PRODUCT IDENTIFICATION

HPWL : FC RH 1003 T 1R5 N F XX
 A B C D E F G H I

A

Type	
HPWL	Wire Wound SMD Type PowerInductors (With Metallic Base)

B

FH	Material
F=ferrite	C type

C

Base type
Metalic

D

External
1003~1005

E

Packing	
T	Tape and Reel

F

Nominal Inductance	
Example	Nominal Value
1R5	1.5μH
100	10μH
101	100μH

G

Inductance Tolerance	
M	±20%
N	±30%

H

Hazardous Substance Free Products
F

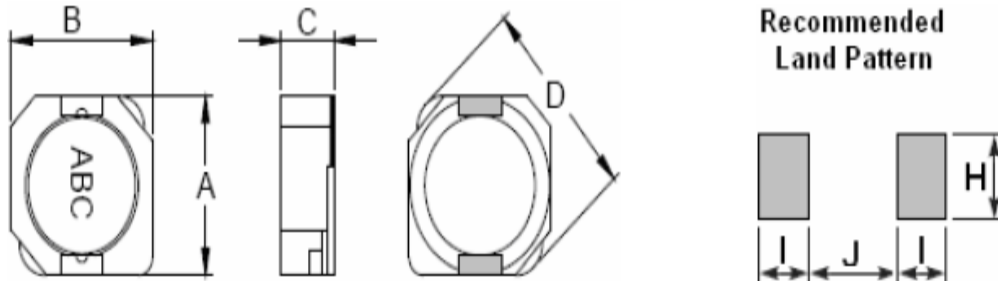
I

Internal code
XX

The data is reference only. Customers should verify actual device performance in their specific applications. Specifications are subject to change without notice. Please check our website for latest information. <http://www.ftind.com>



SHAPE AND DIMENSIONS



Unit: mm

Series	A Max.	B Max.	C Max.	D Typ.	I Typ.	J Typ.	H Typ.
HPWL-FCRH1003	10.6	10.5	3.0	13.5	1.7	7.3	3.6
HPWL-FCRH1004	10.6	10.5	4.0	13.5	1.7	7.3	3.6
HPWL-FCRH1005	10.6	10.5	5.2	13.5	1.7	7.3	3.6

SPECIFICATIONS

HPWL-FCRH1003 TYPE

Part Number	Inductance	L Test Condition	Max. DC Resistance	Max. Rated Current
Units	μH	Hz, V	Ω	A
Symbol	L	-	DCR	I_r
HPWL-FCRH1003TR0NF	1.0±30%	100k, 0.3V	0.009	6.50
HPWL-FCRH1003T1R5NF	1.5±30%	100k, 0.3V	0.011	5.80
HPWL-FCRH1003T2R2NF	2.2±30%	100k, 0.3V	0.017	5.10
HPWL-FCRH1003T3R3NF	3.3±30%	100k, 0.3V	0.021	4.70
HPWL-FCRH1003T4R7NF	4.7±30%	100k, 0.3V	0.030	4.00
HPWL-FCRH1003T6R8NF	6.8±30%	100k, 0.3V	0.035	3.60
HPWL-FCRH1003T8R2NF	8.2±30%	100k, 0.3V	0.050	3.00
HPWL-FCRH1003T100MF	10±20%	1k, 0.3V	0.059	2.80
HPWL-FCRH1003T150MF	15±20%	1k, 0.3V	0.091	2.05
HPWL-FCRH1003T220MF	22±20%	1k, 0.3V	0.143	1.60
HPWL-FCRH1003T330MF	33±20%	1k, 0.3V	0.202	1.35
HPWL-FCRH1003T470MF	47±20%	1k, 0.3V	0.299	1.20
HPWL-FCRH1003T560MF	56±20%	1k, 0.3V	0.325	1.15
HPWL-FCRH1003T680MF	68±20%	1k, 0.3V	0.429	0.95
HPWL-FCRH1003T820MF	82±20%	1k, 0.3V	0.494	0.80
HPWL-FCRH1003T101MF	100±20%	1k, 0.3V	0.683	0.70
HPWL-FCRH1003T121MF	120±20%	1k, 0.3V	0.754	0.65

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**SPECIFICATIONS****HPWL-FCRH1004 TYPE**

Part Number	Inductance	L Test Condition	Max. DC Resistance	Max. Rated Current
Units Symbol	μH L	Hz, V -	Ω DCR	A I _r
HPWL-FCRH1004T1R5NF	1.5±30%	100k, 0.3V	0.008	6.5
HPWL-FCRH1004T2R5NF	2.5±30%	100k, 0.3V	0.011	6.1
HPWL-FCRH1004T3R3NF	3.3±30%	100k, 0.3V	0.014	5.6
HPWL-FCRH1004T3R8NF	3.8±30%	100k, 0.3V	0.018	5.5
HPWL-FCRH1004T4R7NF	4.7±30%	100k, 0.3V	0.022	5.4
HPWL-FCRH1004T5R2NF	5.2±30%	100k, 0.3V	0.022	5.4
HPWL-FCRH1004T6R8NF	6.8±30%	100k, 0.3V	0.025	5.0
HPWL-FCRH1004T7R0NF	7.0±30%	100k, 0.3V	0.027	4.5
HPWL-FCRH1004T8R2NF	8.2±30%	100k, 0.3V	0.030	4.1
HPWL-FCRH1004T100MF	10±20%	1k, 0.3V	0.035	3.8
HPWL-FCRH1004T150MF	15±20%	1k, 0.3V	0.050	3.1
HPWL-FCRH1004T220MF	22±20%	1k, 0.3V	0.073	2.5
HPWL-FCRH1004T330MF	33±20%	1k, 0.3V	0.093	2.2
HPWL-FCRH1004T470MF	47±20%	1k, 0.3V	0.128	1.9
HPWL-FCRH1004T560MF	56±20%	1k, 0.3V	0.185	1.6
HPWL-FCRH1004T680MF	68±20%	1k, 0.3V	0.213	1.42
HPWL-FCRH1004T820MF	82±20%	1k, 0.3V	0.275	1.32
HPWL-FCRH1004T101MF	100±20%	1k, 0.3V	0.304	1.25
HPWL-FCRH1004T151MF	150±20%	1k, 0.3V	0.506	0.85
HPWL-FCRH1004T221MF	220±20%	1k, 0.3V	0.756	0.70
HPWL-FCRH1004T331MF	330±20%	1k, 0.3V	1.090	0.52

HPWL-FCRH1005 TYPE

Part Number	Inductance	L Test Condition	Max. DC Resistance	Max. Rated Current
Units Symbol	μH L	Hz, V -	Ω DCR	A I _r
HPWL-FCRH1005T3R3NF	3.3±30%	1k, 0.3V	0.013	6.00
HPWL-FCRH1005T4R7NF	4.7±30%	1k, 0.3V	0.016	5.70
HPWL-FCRH1005T6R8NF	6.8±30%	1k, 0.3V	0.020	5.35
HPWL-FCRH1005T8R2NF	8.2±30%	1k, 0.3V	0.023	5.00
HPWL-FCRH1005T100MT	10±20%	1k, 0.3V	0.026	4.45

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SPECIFICATIONS

HPWL-FCRH1005 TYPE

Part Number	Inductance	L Test Condition	Max. DC Resistance	Max. Rated Current
Units Symbol	μH L	Hz, V -	Ω DCR	A I _r
HPWL-FCRH1005T120MF	12 \pm 20%	1k, 0.3V	0.033	3.80
HPWL-FCRH1005T150MF	15 \pm 20%	1k, 0.3V	0.041	3.40
HPWL-FCRH1005T180MF	18 \pm 20%	1k, 0.3V	0.046	3.10
HPWL-FCRH1005T220MF	22 \pm 20%	1k, 0.3V	0.061	2.90
HPWL-FCRH1005T270MF	27 \pm 20%	1k, 0.3V	0.069	2.60
HPWL-FCRH1005T330MF	33 \pm 20%	1k, 0.3V	0.084	2.40
HPWL-FCRH1005T390MF	39 \pm 20%	1k, 0.3V	0.106	2.25
HPWL-FCRH1005T470MF	47 \pm 20%	1k, 0.3V	0.130	2.00
HPWL-FCRH1005T560MF	56 \pm 20%	1k, 0.3V	0.149	1.90
HPWL-FCRH1005T680MF	68 \pm 20%	1k, 0.3V	0.201	1.60
HPWL-FCRH1005T820MF	82 \pm 20%	1k, 0.3V	0.227	1.45
HPWL-FCRH1005T101MF	100 \pm 20%	1k, 0.3V	0.253	1.35
HPWL-FCRH1005T121MF	120 \pm 20%	1k, 0.3V	0.303	1.18
HPWL-FCRH1005T151MF	150 \pm 20%	1k, 0.3V	0.370	1.10
HPWL-FCRH1005T181MF	180 \pm 20%	1k, 0.3V	0.419	1.00
HPWL-FCRH1005T221MF	220 \pm 20%	1k, 0.3V	0.500	0.94
HPWL-FCRH1005T271MF	270 \pm 20%	1k, 0.3V	0.672	0.80
HPWL-FCRH1005T331MF	330 \pm 20%	1k, 0.3V	0.812	0.73
HPWL-FCRH1005T391MF	390 \pm 20%	1k, 0.3V	0.953	0.70
HPWL-FCRH1005T471MF	470 \pm 20%	1k, 0.3V	1.290	0.54
HPWL-FCRH1005T561MF	560 \pm 20%	1k, 0.3V	1.430	0.52
HPWL-FCRH1005T681MF	680 \pm 20%	1k, 0.3V	1.600	0.51
HPWL-FCRH1005T821MF	820 \pm 20%	1k, 0.3V	1.770	0.48

※1: All test data is referenced to 20 °C ambient;

※2: The maximum rated current is a DC current which causes initial inductance to decrease by 35% or temperature to rise by 40 °C, which is smaller(at ambient reference temperature: 20 °C).

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