Wire Wound SMD Power Inductors HPWL-DCRH Series

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	8D28	T	100	M	F	XX
A		B	C	D	E	F	G	H	I

A

Type	
HPWL	Wire Wound SMD Type Power Inductor

B

FC	Material
F= ferrite	C type

C

Base type
Metalic

D

External Dimensions
8D28~8D43

E

Packing	
T	Tape and reel

F

Nominal Inductance	
Example	Nominal
1R0	1.0μH
100	10μH
101	100μH

G

Inductance Tolerance	
M	±20%
N	±30%

H

Hazardous Substance Free Products
F

I

Internal code
XX

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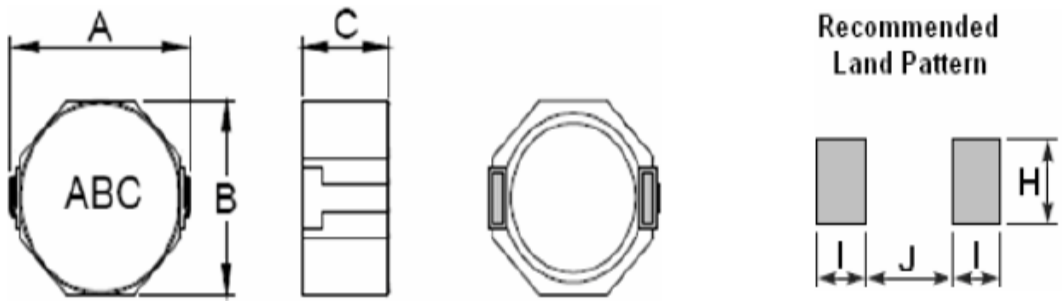
SHAPE AND DIMENSIONS



Unit: mm

Series	A Max.	B Max.	C Max.	I Typ.	J Typ.	H Typ.
HPWL-FCRH8D28	10.1	8.3	3.0	2.0	6.1	2.8
HPWL-FCRH8D38	10.1	8.3	4.0	2.0	6.1	2.8
HPWL-FCRH8D43	10.1	8.3	4.5	2.0	6.1	2.8

SPECIFICATIONS

HPWL-FCRH8D28 TYPE

Part Number	Inductance	L Test Condition	Max. DC Resistance	Max. Rated Current
Units Symbol	μH L	Hz, V -	Ω DCR	A Ir
HPWL-FCRH8D28T2R5NFXX	2.5±30%	100k, 0.3V	0.016	4.50
HPWL-FCRH8D28T3R3NFXX	3.3±30%	100k, 0.3V	0.018	4.00
HPWL-FCRH8D28T4R7NFXX	4.7±30%	100k, 0.3V	0.025	3.40
HPWL-FCRH8D28T6R8NFXX	6.8±30%	100k, 0.3V	0.030	3.00
HPWL-FCRH8D28T8R2NFXX	8.2±30%	100k, 0.3V	0.038	2.75
HPWL-FCRH8D28T100MFXX	10±20%	1k, 0.3V	0.047	2.50
HPWL-FCRH8D28T150MFXX	15±20%	1k, 0.3V	0.069	1.90
HPWL-FCRH8D28T220MFXX	22±20%	1k, 0.3V	0.099	1.60

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HPWL-FCRH8D28 TYPE

Part Number	Inductance	L Test Condition	Max. DC Resistance	Max. Rated Current
Units Symbol	μH L	Hz, V -	Ω DCR	A Ir
HPWL-FCRH8D28T330MFXX	33±20%	1k, 0.3V	0.156	1.30
HPWL-FCRH8D28T470MFXX	47±20%	1k, 0.3V	0.195	1.15
HPWL-FCRH8D28T680MFXX	68±20%	1k, 0.3V	0.286	0.92
HPWL-FCRH8D28T820MFXX	82±20%	1k, 0.3V	0.375	0.83
HPWL-FCRH8D28T101MFXX	100±20%	1k, 0.3V	0.430	0.75

HPWL-FRHC8D38 TYPE

Part Number	Inductance	L Test Condition	Max. DC Resistance	Max. Rated Current
Units Symbol	μH L	Hz, V -	Ω DCR	A Ir
HPWL-FCRH8D38T1R5NFXX	1.5±30%	100k, 0.3V	0.019	6.00
HPWL-FCRH8D38T2R2NFXX	2.2±30%	100k, 0.3V	0.021	5.50
HPWL-FCRH8D38T3R3NFXX	3.3±30%	100k, 0.3V	0.024	5.00
HPWL-FCRH8D38T4R7NFXX	4.7±30%	100k, 0.3V	0.029	4.40
HPWL-FCRH8D38T6R8NFXX	6.8±30%	100k, 0.3V	0.038	3.60
HPWL-FCRH8D38T8R2NFXX	8.2±30%	100k, 0.3V	0.043	3.30
HPWL-FCRH8D38T100MFXX	10±20%	1k, 0.3V	0.048	3.00
HPWL-FCRH8D38T150MFXX	15±20%	1k, 0.3V	0.067	2.50

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SPECIFICATIONS

HPWL-FRHC8D38 TYPE

Part Number	Inductance	L Test Condition	Max. DC Resistance	Max. Rated Current
Units Symbol	μH L	Hz, V -	Ω DCR	A Ir
HPWL-FCRH8D38T220MFXX	22±20%	1k, 0.3V	0.105	2.00
HPWL-FCRH8D38T330MFXX	33±20%	1k, 0.3V	0.157	1.60
HPWL-FCRH8D38T470MFXX	47±20%	1k, 0.3V	0.189	1.42
HPWL-FCRH8D38T680MFXX	68±20%	1k, 0.3V	0.290	1.08
HPWL-FCRH8D38T820MFXX	82±20%	1k, 0.3V	0.372	0.95
HPWL-FCRH8D38T101MFXX	100±20%	1k, 0.3V	0.410	0.88

HPWL-FCRH8D43 TYPE

Part Number	Inductance	L Test Condition	Max. DC Resistance	Max. Rated Current
Units Symbol	μH L	Hz, V -	Ω DCR	A Ir
HPWL-FCRH8D43T2R0NFXX	2.0±30%	100k, 0.3V	0.014	5.50
HPWL-FCRH8D43T2R2NFXX	2.2±30%	100k, 0.3V	0.016	5.00
HPWL-FCRH8D43T3R3NFXX	3.3±30%	100k, 0.3V	0.019	4.50
HPWL-FCRH8D43T4R7NFXX	4.7±30%	100k, 0.3V	0.022	4.10
HPWL-FCRH8D43T6R8NFXX	6.8±30%	100k, 0.3V	0.025	3.90
HPWL-FCRH8D43T8R2NFXX	8.2±30%	100k, 0.3V	0.030	3.50
HPWL-FCRH8D43T100MFXX	10±20%	1k, 0.3V	0.036	3.20

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SPECIFICATIONS

HPWL-FCRH8D43 TYPE

Part Number	Inductance	L Test Condition	Max. DC Resistance	Max. Rated Current
Units Symbol	μH L	Hz, V -	Ω DCR	A Ir
HPWL-FCRH8D43T150MFXX	15±20%	1k, 0.3V	0.053	2.30
HPWL-FCRH8D43T220MFXX	22±20%	1k, 0.3V	0.075	1.80
HPWL-FCRH8D43T330MFXX	33±20%	1k, 0.3V	0.125	1.40
HPWL-FCRH8D43T470MFXX	47±20%	1k, 0.3V	0.150	1.30
HPWL-FCRH8D43T680MFXX	68±20%	1k, 0.3V	0.240	1.00
HPWL-FCRH8D43T820MFXX	82±20%	1k, 0.3V	0.300	0.90
HPWL-FCRH8D43T101MFXX	100±20%	1k, 0.3V	0.360	0.80

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

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

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