



Wire Wound SMD Power Inductors HPWL -FSRB 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 : **F** **SRB** **1204** **T** **1R0** **N** **F** **XX**
 A B C D E F G H I

A

Type	
HPWL	Wire Wound SMD Power Inductor

B

Material
Ferrite

C

Base type
S type plastic

D

External Dimensions
1204~1207

E

Packing	
T	Tape Carrier Package

F

Nominal Inductance	
Example	Nominal Value
1R0	1μH
100	10μH

G

Inductance Tolerance	
M	±20%
N	±30%

H

Hazardous Substance Free Products	
F	

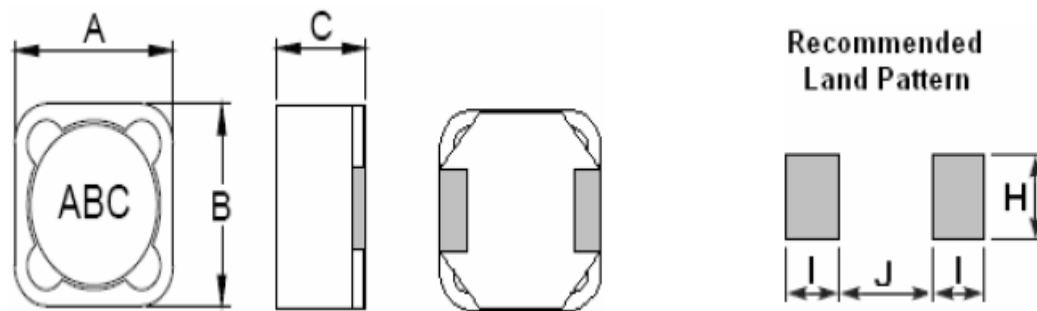
I

Internal code
XX

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<http://www.ftind.com>



SHAPE AND DIMENSIONS



Unit: mm

Series	A Max.	B Max.	C Max.	I Typ.	J Typ.	H Typ.
HPWL-FS1204	12.5	12.5	5.0	2.9	7.0	5.4
HPWL-FS1205	12.5	12.5	6.0	2.9	7.0	5.4
HPWL-FS1207	12.5	12.5	8.0	2.9	7.0	5.4

SPECIFICATIONS

HPWL-FSRB1204 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-FSRB1204ST1R0NFXX	1.0 \pm 30%	100k, 0.3V	0.010	7.00
HPWL-FSRB1204ST2R2NFXX	2.2 \pm 30%	100k, 0.3V	0.014	5.70
HPWL-FSRB1204ST3R3NFXX	3.3 \pm 30%	100k, 0.3V	0.015	5.20
HPWL-FSRB1204ST4R7NFXX	4.7 \pm 30%	100k, 0.3V	0.018	4.90
HPWL-FSRB1204ST5R6NFXX	5.6 \pm 30%	100k, 0.3V	0.020	4.50
HPWL-FSRB1204ST6R8NFXX	6.8 \pm 30%	100k, 0.3V	0.023	4.20
HPWL-FSRB1204ST8R2NFXX	8.2 \pm 30%	100k, 0.3V	0.026	4.00
HPWL-FSRB1204ST100MFXX	10 \pm 20%	1k, 0.3V	0.028	3.80
HPWL-FSRB1204ST120MFXX	12 \pm 20%	1k, 0.3V	0.038	3.50
HPWL-FSRB1204ST150MFXX	15 \pm 20%	1k, 0.3V	0.050	3.20
HPWL-FSRB1204ST180MFXX	18 \pm 20%	1k, 0.3V	0.057	3.10
HPWL-FSRB1204ST220MFXX	22 \pm 20%	1k, 0.3V	0.066	2.90

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Part Number	Inductance	L Test Condition	Max. DC Resistance	Max. Rated Current
Units	μH	Hz, V	Ω	A
Symbol	L	-	DCR	Ir
HPWL-FSRB1204ST270MFXX	27 \pm 20%	1k, 0.3V	0.080	2.80
HPWL-FSRB1204ST330MFXX	33 \pm 20%	1k, 0.3V	0.097	2.70
HPWL-FSRB1204ST390MFXX	39 \pm 20%	1k, 0.3V	0.132	2.10
HPWL-FSRB1204ST470MFXX	47 \pm 20%	1k, 0.3V	0.160	1.90
HPWL-FSRB1204ST560MFXX	56 \pm 20%	1k, 0.3V	0.190	1.80
HPWL-FSRB1204ST680MFXX	68 \pm 20%	1k, 0.3V	0.220	1.50
HPWL-FSRB1204ST820MFXX	82 \pm 20%	1k, 0.3V	0.260	1.30
HPWL-FSRB1204ST101MFXX	100 \pm 20%	1k, 0.3V	0.310	1.20
HPWL-FSRB1204ST121MFXX	120 \pm 20%	1k, 0.3V	0.380	1.10
HPWL-FSRB1204ST151MFXX	150 \pm 20%	1k, 0.3V	0.530	0.95
HPWL-FSRB1204ST181MFXX	180 \pm 20%	1k, 0.3V	0.620	0.85
HPWL-FSRB1204ST221MFXX	220 \pm 20%	1k, 0.3V	0.700	0.80
HPWL-FSRB1204ST271MFXX	270 \pm 20%	1k, 0.3V	0.870	0.60
HPWL-FSRB1204ST331MFXX	330 \pm 20%	1k, 0.3V	0.990	0.50

HPWL-FSRB1205 TYPE

Part Number	Inductance	L Test Condition	Max. DC Resistance	Max. Rated Current
Units	μH	Hz, V	Ω	A
Symbol	L	-	DCR	Ir
HPWL-FSRB1205ST1R0NFXX	1.0 \pm 30%	100k, 0.3V	0.010	8.00
HPWL-FSRB1205ST2R2NFXX	2.2 \pm 30%	100k, 0.3V	0.014	7.80
HPWL-FSRB1205ST2R4NFXX	2.4 \pm 30%	100k, 0.3V	0.014	7.80
HPWL-FSRB1205ST3R3NFXX	3.3 \pm 30%	100k, 0.3V	0.018	6.00

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SPECIFICATIONS

HPWL-FSRB1205TYPE

Part Number	Inductance	L Test Condition	Max. DC Resistance	Max. Rated Current
Units	μH	Hz, V	Ω	A
Symbol	L	-	DCR	Ir
HPWL-FSRB1205ST5R6NFXX	5.6 \pm 30%	100k, 0.3V	0.020	5.20
HPWL-FSRB1205ST6R8NFXX	6.8 \pm 30%	100k, 0.3V	0.020	4.70
HPWL-FSRB1205ST8R2NFXX	8.2 \pm 30%	100k, 0.3V	0.021	4.40
HPWL-FSRB1205ST100MFXX	10 \pm 20%	1k, 0.3V	0.025	4.00
HPWL-FSRB1205ST120MFXX	12 \pm 20%	1k, 0.3V	0.027	3.50
HPWL-FSRB1205ST150MFXX	15 \pm 20%	1k, 0.3V	0.030	3.30
HPWL-FSRB1205ST180MFXX	18 \pm 20%	1k, 0.3V	0.034	3.00
HPWL-FSRB1205ST220MFXX	22 \pm 20%	1k, 0.3V	0.036	2.80
HPWL-FSRB1205ST270MFXX	27 \pm 20%	1k, 0.3V	0.051	2.30
HPWL-FSRB1205ST330MFXX	33 \pm 20%	1k, 0.3V	0.057	2.10
HPWL-FSRB1205ST390MFXX	39 \pm 20%	1k, 0.3V	0.068	2.00
HPWL-FSRB1205ST470MFXX	47 \pm 20%	1k, 0.3V	0.075	1.80
HPWL-FSRB1205ST560MFXX	56 \pm 20%	1k, 0.3V	0.110	1.70
HPWL-FSRB1205ST680MFXX	68 \pm 20%	1k, 0.3V	0.120	1.50
HPWL-FSRB1205ST820MFXX	82 \pm 20%	1k, 0.3V	0.140	1.40
HPWL-FSRB1205ST101MFXX	100 \pm 20%	1k, 0.3V	0.160	1.30
HPWL-FSRB1205ST121MFXX	120 \pm 20%	1k, 0.3V	0.170	1.10
HPWL-FSRB1205ST151MFXX	150 \pm 20%	1k, 0.3V	0.230	1.00
HPWL-FSRB1205ST181MFXX	180 \pm 20%	1k, 0.3V	0.290	0.90
HPWL-FSRB1205ST221MFXX	220 \pm 20%	1k, 0.3V	0.400	0.80
HPWL-FSRB1205ST271MFXX	270 \pm 20%	1k, 0.3V	0.460	0.75
HPWL-FSRB1205ST331MFXX	330 \pm 20%	1k, 0.3V	0.510	0.68

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HPWL-FSRB1205 TYPE

Part Number	Inductance	L Test Condition	Max. DC Resistance	Max. Rated Current
Units	μH	Hz, V	Ω	A
Symbol	L	-	DCR	Ir
HPWL-FSRB1205ST391MFXX	390±20%	1k, 0.3V	0.690	0.65
HPWL-FSRB1205ST471MFXX	470±20%	1k, 0.3V	0.770	0.58
HPWL-FSRB1205ST561MFXX	560±20%	1k, 0.3V	0.860	0.54
HPWL-FSRB1205ST681MFXX	680±20%	1k, 0.3V	1.200	0.48

HPWL-FSRB1207 TYPE

Part Number	Inductance	L Test Condition	Max. DC Resistance	Max. Rated Current
Units	μH	Hz, V	Ω	A
Symbol	L	-	DCR	Ir
HPWL-FSRB1207ST1R0NFXX	1.0±30%	100k, 0.3V	0.009	10.00
HPWL-FSRB1207ST2R2NFXX	2.2±30%	100k, 0.3V	0.012	8.00
HPWL-FSRB1207ST3R3NFXX	3.3±30%	100k, 0.3V	0.013	7.00
HPWL-FSRB1207ST4R7NFXX	4.7±30%	100k, 0.3V	0.016	6.80
HPWL-FSRB1207ST5R6NFXX	5.6±30%	100k, 0.3V	0.018	6.70
HPWL-FSRB1207ST6R8NFXX	6.8±30%	100k, 0.3V	0.019	6.60
HPWL-FSRB1207ST8R2NFXX	8.2±30%	100k, 0.3V	0.020	5.60
HPWL-FSRB1207ST100MFXX	10±20%	1k, 0.3V	0.021	5.40
HPWL-FSRB1207ST120MFXX	12±20%	1k, 0.3V	0.024	4.90
HPWL-FSRB1207ST150MFXX	15±20%	1k, 0.3V	0.027	4.50
HPWL-FSRB1207ST180MFXX	18±20%	1k, 0.3V	0.039	3.90
HPWL-FSRB1207ST220MFXX	22±20%	1k, 0.3V	0.043	3.60
HPWL-FSRB1207ST270MFXX	27±20%	1k, 0.3V	0.046	3.40

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SPECIFICATIONS

HPWL-FSRB1207 TYPE

Part Number	Inductance	L Test Condition	Max. DC Resistance	Max. Rated Current
Units	μH	Hz, V	Ω	A
Symbol	L	-	DCR	Ir
HPWL-FSRB1207ST330MFXX	33±20%	1k, 0.3V	0.065	3.00
HPWL-FSRB1207ST390MFXX	39±20%	1k, 0.3V	0.073	2.75
HPWL-FSRB1207ST470MFXX	47±20%	1k, 0.3V	0.100	2.50
HPWL-FSRB1207ST560MFXX	56±20%	1k, 0.3V	0.110	2.35
HPWL-FSRB1207ST680MFXX	68±20%	1k, 0.3V	0.140	2.10
HPWL-FSRB1207ST820MFXX	82±20%	1k, 0.3V	0.160	1.95
HPWL-FSRB1207ST101MFXX	100±20%	1k, 0.3V	0.220	1.70
HPWL-FSRB1207ST121MFXX	120±20%	1k, 0.3V	0.250	1.60
HPWL-FSRB1207ST151MFXX	150±20%	1k, 0.3V	0.280	1.42
HPWL-FSRB1207ST181MFXX	180±20%	1k, 0.3V	0.350	1.30
HPWL-FSRB1207ST221MFXX	220±20%	1k, 0.3V	0.390	1.16
HPWL-FSRB1207ST271MFXX	270±20%	1k, 0.3V	0.560	1.06
HPWL-FSRB1207ST331MFXX	330±20%	1k, 0.3V	0.640	0.95
HPWL-FSRB1207ST391MFXX	390±20%	1k, 0.3V	0.700	0.88
HPWL-FSRB1207ST471MFXX	470±20%	1k, 0.3V	0.980	0.79
HPWL-FSRB1207ST561MFXX	560±20%	1k, 0.3V	1.070	0.73
HPWL-FSRB1207ST681MFXX	680±20%	1k, 0.3V	1.460	0.67
HPWL-FSRB1207ST821MFXX	820±20%	1k, 0.3V	1.640	0.60
HPWL-FSRB1207ST102MFXX	1000±20%	1k, 0.3V	1.820	0.55

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

※2: The maximum rated current ia a DC current which causes initial inductance to decrease by 25% or temperature to rise by 40 °C, which is smaller(at ambient reference temperature: 20 °C).

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