

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 SRH 3D16 T 1R5 N F XX
 A B C D E F G H I

A

Type	
HPWL	Wire Wound SMD Type PowerInductors

B

F
F=ferrite

C

Base type
S type metallic base

D

External Dimensions
3D16~6D38

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

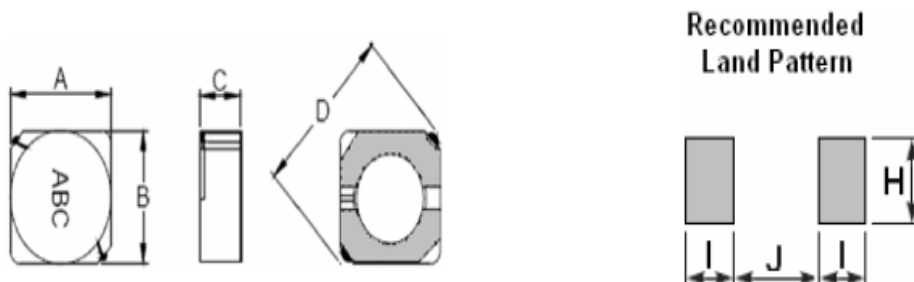
Hazardous Substance Free Products
F

I

Internal code
XX

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SHAPE AND DIMENSIONS



Unit: mm

Series	A Max.	B Max.	C Max.	D Typ.	I Typ.	J Typ.	H Typ.
HPWL-FSRH3D16	4.2	4.2	1.8	5.5	1.7	1.1	4.5
HPWL-FSRH3D18	4.2	4.2	2.1	5.5	1.7	1.1	4.5
HPWL-FSRH3D28	4.2	4.2	3.2	5.5	1.7	1.1	4.5
HPWL-FSRH4D18	5.0	5.0	2.0	6.9	1.9	1.5	5.3
HPWL-FSRH4D28	5.0	5.0	3.0	6.9	1.9	1.5	5.3
HPWL-FSRH5D18	6.0	6.0	2.0	8.2	2.1	2.0	6.3
HPWL-FSRH5D28	6.0	6.0	3.0	8.2	2.1	2.0	6.3
HPWL-FSRH6D28	7.0	7.0	3.0	9.5	2.6	2.0	7.3
HPWL-FSRH6D38	7.0	7.0	4.0	9.5	2.6	2.0	7.3

SPECIFICATIONS

HPWL -FSRH3D16 TYPE

Part Number	Inductance	L Test Condition	Max. DC Resistance	Max. Rated Current
Units	μ H	Hz, V	Ω	A
Symbol	L	-	DCR	I_r
HPWL - FSRH3D16T1R5NFXX	1.5 \pm 30%	100k, 0.3V	0.052	1.35
HPWL - FSRH3D16T2R2NFXX	2.2 \pm 30%	100k, 0.3V	0.072	1.20
HPWL - FSRH3D16T3R3NFXX	3.3 \pm 30%	100k, 0.3V	0.085	1.10
HPWL - FSRH3D16T4R7NFXX	4.7 \pm 30%	100k, 0.3V	0.105	0.90
HPWL - FSRH3D16T6R8NFXX	6.8 \pm 30%	100k, 0.3V	0.170	0.73

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SPECIFICATIONS

HPWL -FSRH3D16 TYPE

Part Number	Inductance	L Test Condition	Max. DC Resistance	Max. Rated Current
Units Symbol	μH L	Hz, V -	Ω DCR	A Ir
HPWL - FSRH3D16T8R2NFXX	8.2 \pm 30%	100k, 0.3V	0.190	0.66
HPWL - FSRH3D16T100MFXX	10 \pm 20%	1k, 0.3V	0.210	0.55
HPWL - FSRH3D16T150MFXX	15 \pm 20%	1k, 0.3V	0.295	0.45
HPWL - FSRH3D16T220MFXX	22 \pm 20%	1k, 0.3V	0.430	0.40
HPWL - FSRH3D16T330MFXX	33 \pm 20%	1k, 0.3V	0.660	0.32

HPWL -FSRH3D18 TYPE

Part Number	Inductance	L Test Condition	Max. DC Resistance	Max. Rated Current
Units Symbol	μH L	Hz, V -	Ω DCR	A Ir
HPWL - FSRH3D18T3R3NFXX	3.3 \pm 30%	100k, 0.3V	0.088	1.45
HPWL - FSRH3D18T4R7NFXX	4.7 \pm 30%	100k, 0.3V	0.107	1.35
HPWL - FSRH3D18T6R8NFXX	6.8 \pm 30%	100k, 0.3V	0.150	1.10
HPWL - FSRH3D18T8R2NFXX	8.2 \pm 30%	100k, 0.3V	0.185	1.00
HPWL - FSRH3D18T100MFXX	10 \pm 20%	1k, 0.3V	0.205	0.90
HPWL - FSRH3D18T150MFXX	15 \pm 20%	1k, 0.3V	0.301	0.75
HPWL - FSRH3D18T220MFXX	22 \pm 20%	1k, 0.3V	0.424	0.60
HPWL - FSRH3D18T330MFXX	33 \pm 20%	1k, 0.3V	0.640	0.45
HPWL - FSRH3D18T470MFXX	47 \pm 20%	1k, 0.3V	0.964	0.35

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**SPECIFICATIONS****HPWL -FSRH3D28 TYPE**

Part Number	Inductance	L Test Condition	Max. DC Resistance	Max. Rated Current
Units Symbol	μH L	Hz, V -	Ω DCR	A Ir
HPWL - FSRH3D28T3R3NFXX	3.3 \pm 30%	100k, 0.3V	0.072	2.00
HPWL - FSRH3D28T4R7NFXX	4.7 \pm 30%	100k, 0.3V	0.088	1.65
HPWL - FSRH3D28T6R8NFXX	6.8 \pm 30%	100k, 0.3V	0.119	1.24
HPWL - FSRH3D28T8R2NFXX	8.2 \pm 30%	100k, 0.3V	0.132	1.15
HPWL - FSRH3D28T100MFXX	10 \pm 20%	1k, 0.3V	0.145	1.05
HPWL - FSRH3D28T150MFXX	15 \pm 20%	1k, 0.3V	0.213	0.90
HPWL - FSRH3D28T220MFXX	22 \pm 20%	1k, 0.3V	0.335	0.76
HPWL - FSRH3D28T330MFXX	33 \pm 20%	1k, 0.3V	0.481	0.58
HPWL - FSRH3D28T470MFXX	47 \pm 20%	1k, 0.3V	0.599	0.48

HPWL -FSRH4D18 TYPE

Part Number	Inductance	L Test Condition	Max. DC Resistance	Max. Rated Current
Units Symbol	μH L	Hz, V -	Ω DCR	A Ir
HPWL - FSRH4D18T1R0NFXX	1.0 \pm 30%	100k, 0.3V	0.045	1.72
HPWL -FSRH4D18T- 2R2NFXX	2.2 \pm 30%	100k, 0.3V	0.075	1.32
HPWL - FSRH4D18T2R7NFXX	2.7 \pm 30%	100k, 0.3V	0.105	1.28
HPWL - FSRH4D18T3R3NFXX	3.3 \pm 30%	100k, 0.3V	0.110	1.04

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SPECIFICATIONS

HPWL -FSRH4D18 TYPE

HPWL - FSRH4D18T3R9NFXX	3.9±30%	100k, 0.3V	0.155	0.88
HPWL - FSRH4D18T4R7NFXX	4.7±30%	100k, 0.3V	0.162	0.84
HPWL - FSRH4D18T5R6NFXX	5.6±30%	100k, 0.3V	0.170	0.80
HPWL - FSRH4D18T6R8NFXX	6.8±30%	100k, 0.3V	0.190	0.76
HPWL - FSRH4D18T8R2NFXX	8.2±30%	100k, 0.3V	0.195	0.68
HPWL - FSRH4D18T100MFXX	10±20%	1k, 0.3V	0.200	0.61
HPWL - FSRH4D18T120MFXX	12±20%	1k, 0.3V	0.210	0.56
HPWL - FSRH4D18T150MFXX	15±20%	1k, 0.3V	0.240	0.50
HPWL - FSRH4D18T180MFXX	18±20%	1k, 0.3V	0.338	0.48
HPWL - FSRH4D18T220MFXX	22±20%	1k, 0.3V	0.397	0.41
HPWL - FSRH4D18T270MFXX	27±20%	1k, 0.3V	0.441	0.35
HPWL - FSRH4D18T330MFXX	33±20%	1k, 0.3V	0.694	0.32
HPWL - FSRH4D18T390MFXX	39±20%	1k, 0.3V	0.709	0.30
HPWL - FSRH4D18T470MFXX	47±20%	1k, 0.3V	0.922	0.28
HPWL - FSRH4D18T560MFXX	56±20%	1k, 0.3V	1.080	0.26
HPWL - FSRH4D18T680MFXX	68±20%	1k, 0.3V	1.300	0.24
HPWL - FSRH4D18T820MFXX	82±20%	1k, 0.3V	1.560	0.22
HPWL - FSRH4D18T101MFXX	100±20%	1k, 0.3V	1.730	0.20
HPWL - FSRH4D18T121MFXX	120±20%	1k, 0.3V	2.390	0.18
HPWL - FSRH4D18T151MFXX	150±20%	1k, 0.3V	2.670	0.15

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**SPECIFICATIONS****HPWL -FSRH4D28 TYPE**

Part Number	Inductance	L Test Condition	Max. DC Resistance	Max. Rated Current
Units Symbol	μH L	Hz, V -	Ω DCR	A Ir
HPWL - FSRH4D28T1R0NT	1.0 \pm 30%	100k, 0.3V	0.022	2.60
HPWL - FSRH4D28T1R2NT	1.2 \pm 30%	100k, 0.3V	0.024	2.56
HPWL - FSRH4D28T2R2NFXX	2.2 \pm 30%	100k, 0.3V	0.031	2.04
HPWL - FSRH4D28T3R3NFXX	3.3 \pm 30%	100k, 0.3V	0.049	1.57
HPWL - FSRH4D28T4R7NFXX	4.7 \pm 30%	100k, 0.3V	0.072	1.32
HPWL - FSRH4D28T5R6NFXX	5.6 \pm 30%	100k, 0.3V	0.101	1.17
HPWL - FSRH4D28T6R8NFXX	6.8 \pm 30%	100k, 0.3V	0.108	1.12
HPWL - FSRH4D28T8R2NFXX	8.2 \pm 30%	100k, 0.3V	0.118	1.04
HPWL - FSRH4D28T100MFXX	10 \pm 20%	1k, 0.3V	0.128	1.00
HPWL - FSRH4D28T120MFXX	12 \pm 20%	1k, 0.3V	0.132	0.84
HPWL - FSRH4D28T150MFXX	15 \pm 20%	1k, 0.3V	0.149	0.76
HPWL - FSRH4D28T180MFXX	18 \pm 20%	1k, 0.3V	0.165	0.72
HPWL - FSRH4D28T220MFXX	22 \pm 20%	1k, 0.3V	0.235	0.70
HPWL - FSRH4D28T330MFXX	33 \pm 20%	1k, 0.3V	0.331	0.56
HPWL - FSRH4D28T390MFXX	39 \pm 20%	1k, 0.3V	0.384	0.50
HPWL - FSRH4D28T470MFXX	47 \pm 20%	1k, 0.3V	0.587	0.48
HPWL - FSRH4D28T560MFXX	56 \pm 20%	1k, 0.3V	0.624	0.41
HPWL - FSRH4D28T680MFXX	68 \pm 20%	1k, 0.3V	0.699	0.35
HPWL - FSRH4D28T820MFXX	82 \pm 20%	1k, 0.3V	0.915	0.32
HPWL - FSRH4D28T101MFXX	100 \pm 20%	1k, 0.3V	1.020	0.29
HPWL - FSRH4D28T121MFXX	120 \pm 20%	1k, 0.3V	1.270	0.27
HPWL - FSRH4D28T151MFXX	150 \pm 20%	1k, 0.3V	1.350	0.24

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**SPECIFICATIONS****HPWL -FSRH5D18 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 - FSRH5D18T3R3NFXX	3.3 \pm 30%	100k, 0.3V	0.053	2.00
HPWL - FSRH5D18T4R7NFXX	4.7 \pm 30%	100k, 0.3V	0.060	1.90
HPWL - FSRH5D18T5R6NFXX	5.6 \pm 30%	100k, 0.3V	0.076	1.60
HPWL - FSRH5D18T6R8NFXX	6.8 \pm 30%	100k, 0.3V	0.105	1.40
HPWL - FSRH5D18T8R2NFXX	8.2 \pm 30%	100k, 0.3V	0.117	1.30
HPWL - FSRH5D18T100MFXX	10 \pm 20%	1k, 0.3V	0.124	1.20
HPWL - FSRH5D18T120MFXX	12 \pm 20%	1k, 0.3V	0.153	1.10
HPWL - FSRH5D18T180MFXX	18 \pm 20%	1k, 0.3V	0.210	0.85
HPWL - FSRH5D18T220MFXX	22 \pm 20%	1k, 0.3V	0.290	0.80
HPWL - FSRH5D18T270MFXX	27 \pm 20%	1k, 0.3V	0.330	0.75
HPWL - FSRH5D18T330MFXX	33 \pm 20%	1k, 0.3V	0.386	0.65
HPWL - FSRH5D18T390MFXX	39 \pm 20%	1k, 0.3V	0.520	0.57
HPWL - FSRH5D18T470MFXX	47 \pm 20%	1k, 0.3V	0.595	0.54

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SPECIFICATIONS

HPWL -FSRH5D18 TYPE

Part Number	Inductance	L Test Condition	Max. DC Resistance	Max. Rated Current
Units	μH	Hz, V	Ω	A
Symbol	L	-	DCR	Ir
HPWL - FSRH5D18T560MFXX	56±20%	1k, 0.3V	0.665	0.50
HPWL - FSRH5D18T680MFXX	68±20%	1k, 0.3V	0.84	0.43
HPWL - FSRH5D18T820MFXX	82±20%	1k, 0.3V	0.978	0.41
HPWL - FSRH5D18T101MFXX	100±20%	1k, 0.3V	1.200	0.36
HPWL - FSRH5D18T121MFXX	120±20%	1k, 0.3V	1.500	0.33
HPWL - FSRH5D18T151MFXX	150±20%	1k, 0.3V	1.710	0.31

HPWL -FSRH5D28 TYPE

Part Number	Inductance	L Test Condition	Max. DC Resistance	Max. Rated Current
Units	μH	Hz, V	Ω	A
Symbol	L	-	DCR	Ir
HSWL- FWS5D28ST2R2NFXX	2.2±30%	100k, 0.3V	0.017	2.60
HSWL- FWS5D28ST3R3NFXX	3.3±30%	100k, 0.3V	0.029	2.40
HSWL- FWS5D28ST4R7NFXX	4.7±30%	100k, 0.3V	0.039	2.10
HSWL- FWS5D28ST6R8NFXX	6.8±30%	100k, 0.3V	0.048	1.85
HSWL- FWS5D28ST8R2NFXX	8.2±30%	100k, 0.3V	0.057	1.58
HSWL- FWS5D28ST100MFXX	10±20%	1k, 0.3V	0.065	1.30
HSWL- FWS5D28ST120MFXX	12±20%	1k, 0.3V	0.076	1.20
HSWL- FWS5D28ST180MFXX	18±20%	1k, 0.3V	0.110	1.00

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SPECIFICATIONS

HPWL -FSRH5D28 TYPE

Part Number	Inductance	L Test Condition	Max. DC Resistance	Max. Rated Current
Units Symbol	μH L	Hz, V -	Ω DCR	A Ir
HSWL- FWS5D28ST220MFXX	22 \pm 20%	1k, 0.3V	0.122	0.90
HSWL- FWS5D28ST330MFXX	33 \pm 20%	1k, 0.3V	0.189	0.75
HSWL- FWS5D28ST470MFXX	47 \pm 20%	1k, 0.3V	0.250	0.62
HSWL- FWS5D28ST560MFXX	56 \pm 20%	1k, 0.3V	0.305	0.58
HSWL- FWS5D28ST680MFXX	68 \pm 20%	1k, 0.3V	0.355	0.52
HSWL- FWS5D28ST820MFXX	82 \pm 20%	1k, 0.3V	0.463	0.46
HSWL- FWS5D28ST101MFXX	100 \pm 20%	1k, 0.3V	0.520	0.42

HPWL -FSRH5D28S TYPE

Part Number	Inductance	L Test Condition	Max. DC Resistance	Max. Rated Current
Units Symbol	μH L	Hz, V -	Ω DCR	A Ir
HPWL - FSRH5D28T121MFXX	120 \pm 20%	1k, 0.3V	0.560	0.40
HPWL - FSRH5D28T151MFXX	150 \pm 20%	1k, 0.3V	0.680	0.35
HPWL - FSRH5D28T181MFXX	180 \pm 20%	1k, 0.3V	0.930	0.32
HPWL - FSRH5D28T221MFXX	220 \pm 20%	1k, 0.3V	1.150	0.30
HPWL - FSRH5D28T271MFXX	270 \pm 20%	1k, 0.3V	1.560	0.27
HPWL - FSRH5D28T331MFXX	330 \pm 20%	1k, 0.3V	1.980	0.25

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SPECIFICATIONS

HPWL -FSRH6D28 TYPE

Part Number	Inductance	L Test Condition	Max. DC Resistance	Max. Rated Current
Units Symbol	μ H L	Hz, V -	Ω DCR	A I _r
HPWL - FSRH6D28T3R3NFXX	3.3±30%	100k, 0.3V	0.026	2.80
HPWL - FSRH6D28T4R7NFXX	4.7±30%	100k, 0.3V	0.031	2.40
HPWL - FSRH6D28T6R8NFXX	6.8±30%	100k, 0.3V	0.042	2.20
HPWL - FSRH6D28T8R2NFXX	8.2±30%	100k, 0.3V	0.055	1.95
HPWL - FSRH6D28T100MFXX	10±20%	1k, 0.3V	0.065	1.70
HPWL - FSRH6D28T150MFXX	15±20%	1k, 0.3V	0.084	1.40
HPWL - FSRH6D28T180MFXX	18±20%	1k, 0.3V	0.095	1.32
HPWL - FSRH6D28T220MFXX	22±20%	1k, 0.3V	0.128	1.20
HPWL - FSRH6D28T330MFXX	33±20%	1k, 0.3V	0.165	0.97
HPWL - FSRH6D28T470MFXX	47±20%	1k, 0.3V	0.238	0.80
HPWL - FSRH6D28T560MFXX	56±20%	1k, 0.3V	0.277	0.73
HPWL - FSRH6D28T680MFXX	68±20%	1k, 0.3V	0.304	0.65
HPWL - FSRH6D28T820MFXX	82±20%	1k, 0.3V	0.390	0.60
HPWL - FSRH6D28T101MFXX	100±20%	1k, 0.3V	0.535	0.54
HPWL - FSRH6D28T121MFXX	120±20%	1k, 0.3V	0.750	0.51
HPWL - FSRH6D28T151MFXX	150±20%	1k, 0.3V	0.950	0.47
HPWL - FSRH6D28T181MFXX	180±20%	1k, 0.3V	1.200	0.41
HPWL - FSRH6D28T221MFXX	220±20%	1k, 0.3V	1.500	0.37
HPWL - FSRH6D28T271MFXX	270±20%	1k, 0.3V	1.700	0.33
HPWL - FSRH6D28T331MFXX	330±20%	1k, 0.3V	2.150	0.28
HPWL - FSRH6D28T391MFXX	390±20%	1k, 0.3V	2.750	0.23

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**SPECIFICATIONS****HPWL -FSRH6D38 TYPE**

Part Number	Inductance	L Test Condition	Max. DC Resistance	Max. Rated Current
Units Symbol	μH L	Hz, V -	Ω DCR	A Ir
HPWL - FSRH6D38T1R5NFXX	1.5 \pm 30%	100k, 0.3V	0.015	5.20
HPWL - FSRH6D38T2R2NFXX	2.2 \pm 30%	100k, 0.3V	0.018	4.50
HPWL - FSRH6D38T3R3NFXX	3.3 \pm 30%	100k, 0.3V	0.020	3.50
HPWL - FSRH6D38T4R7NFXX	4.7 \pm 30%	100k, 0.3V	0.025	2.80
HPWL - FSRH6D38T6R8NFXX	6.8 \pm 30%	100k, 0.3V	0.029	2.40
HPWL - FSRH6D38T8R2NFXX	8.2 \pm 30%	100k, 0.3V	0.034	2.20
HPWL - FSRH6D38T100MFXX	10 \pm 20%	1k, 0.3V	0.038	2.00
HPWL - FSRH6D38T120MFXX	12 \pm 20%	1k, 0.3V	0.053	1.70
HPWL - FSRH6D38T150MFXX	15 \pm 20%	1k, 0.3V	0.057	1.60
HPWL - FSRH6D38T180MFXX	18 \pm 20%	1k, 0.3V	0.092	1.50
HPWL - FSRH6D38T220MFXX	22 \pm 20%	1k, 0.3V	0.096	1.30
HPWL - FSRH6D38T270MFXX	27 \pm 20%	1k, 0.3V	0.109	1.20
HPWL - FSRH6D38T330MFXX	33 \pm 20%	1k, 0.3V	0.124	1.10
HPWL - FSRH6D38T390MFXX	39 \pm 20%	1k, 0.3V	0.138	1.00
HPWL - FSRH6D38T470MFXX	47 \pm 20%	1k, 0.3V	0.155	0.95
HPWL - FSRH6D38T560MFXX	56 \pm 20%	1k, 0.3V	0.202	0.85
HPWL - FSRH6D38T680MFXX	68 \pm 20%	1k, 0.3V	0.234	0.75
HPWL - FSRH6D38T820MFXX	82 \pm 20%	1k, 0.3V	0.324	0.70
HPWL - FSRH6D38T101MFXX	100 \pm 20%	1k, 0.3V	0.358	0.65

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SPECIFICATIONS

HPWL -FSRH6D38 TYPE

HPWL - FSRH6D38T121MFXX	120±20%	1k, 0.3V	0.470	0.59
HPWL - FSRH6D38T151MFXX	150±20%	1k, 0.3V	0.580	0.54
HPWL - FSRH6D38T181MFXX	180±20%	1k, 0.3V	0.690	0.49
HPWL - FSRH6D38T221MFXX	220±20%	1k, 0.3V	0.890	0.43
HPWL - FSRH6D38T271MFXX	270±20%	1k, 0.3V	1.290	0.40
HPWL - FSRH6D38T331MFXX	330±20%	1k, 0.3V	1.700	0.37
HPWL - FSRH6D38T391MFXX	390±20%	1k, 0.3V	1.750	0.34
HPWL - FSRH6D38T471MFXX	470±20%	1k, 0.3V	2.200	0.32
HPWL - FSRH6D38T561MFXX	560±20%	1k, 0.3V	2.850	0.29
HPWL - FSRH6D38T681MFXX	680±20%	1k, 0.3V	3.200	0.25
HPWL - FSRH6D38T821MFXX	820±20%	1k, 0.3V	4.050	0.22
HPWL - FSRH6D38T102MFXX	1000±20%	1k, 0.3V	5.700	0.20

※The rated current is a smaller DC current which causes inductance to decrease by 35% .
or temperature to rise by 40 °C

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>