

# SHENZHEN HIGHSTARTECH ELECTRONICS CO., LTD

## HSSFO SERIES

### 1. FEATURES:

- (1) The surface mount inductors are designed for the smallest possible size and high performance.
- (2) They are with high energy storage and very low resistance.

### 2. APPLICATIONS:

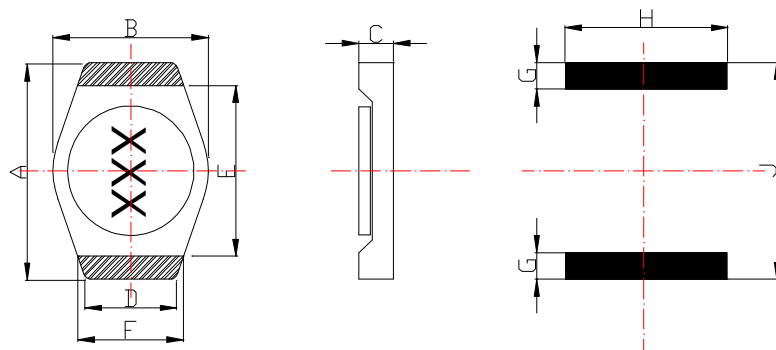
- (1) VGA display card, Note book computers PDAs.
- (2) Step-up and step-down converters.
- (3) Flash memory programmers, etc

### 3. PART NUMBER SYSTEM:

HS-S F 0	<u>2</u> <u>5</u> <u>0</u> <u>6</u>	<u>1</u> <u>0</u> <u>1</u>	<u>M</u>	<u>R</u>	<u>S</u> - <u>L</u> <u>F</u>
1	2	3	4	5	
SERIES NAME	DIMENSIONS	INDUCTANCE	TOLERANCE CODE	PACKING CODE	

J:5%, K:10%, L:15%, M: 20%, P:25%, N:30%    R:Tape & Reel (卷装) B:in Bulk (散装)    S:series (系列)    Lf:Lead Free (无铅)

### 4. PHYSICAL CHARACTERISTICS:



	A	B	C	D	E	F	G	H	J
HS-SF01704	6.6max	5.5max	1.0max	2.5max	4.9max	3.4max			6.9max
HS-SF02506	9.14max	7.87max	1.65max	5.84max	7.24max				

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### 5. ELECTRICAL CHARACTERISTICS:

#### HS-SF01704 SERIES

Part Number	Inductance <sup>1</sup> ( $\mu$ H)	DCR(max) ( $\Omega$ )	SRF(typ.) (MHz)	I <sub>sat</sub> <sup>2</sup> (A)	I <sub>rms</sub> <sup>3</sup> (A rms)
HS-SF01704-1R2M	1.2	0.08	190	2.1	3.60
HS-SF01704-1R5M	1.5	0.1	140	1.9	2.80
HS-SF01704-2R2M	2.2	0.12	115	1.6	2.40
HS-SF01704-3R3M	3.3	0.16	90	1.3	2.00
HS-SF01704-4R7M	4.7	0.2	88	1.1	1.70
HS-SF01704-6R8M	6.8	0.32	66	0.9	1.20
HS-SF01704-100M	10	0.41	55	0.8	1.10
HS-SF01704-150M	15	0.55	38	0.65	0.90
HS-SF01704-220M	22	0.85	29	0.5	0.83
HS-SF01704-330M	33	1.3	22	0.4	0.62
HS-SF01704-470M	47	1.8	18	0.35	0.52
HS-SF01704-680M	68	2.5	14	0.3	0.35
HS-SF01704-101M	100	3.5	12	0.25	0.27
HS-SF01704-151M	150	5.0	12	0.18	0.24
HS-SF01704-221M	220	7.0	10	0.16	0.23
HS-SF01704-331M	330	15.0	8	0.13	0.13

1、Tested at 100KHz ,0.1Vrms.

2、I<sub>sat</sub> is the DC current at which the inductance drops 10%(typ.)  
from its value without current.

3、I<sub>rms</sub> is the average current for a 40°C rise above 25°C ambient.

4、Operating temperature range-40°C to +85°C.

5、Electrical specifications at 25°C.

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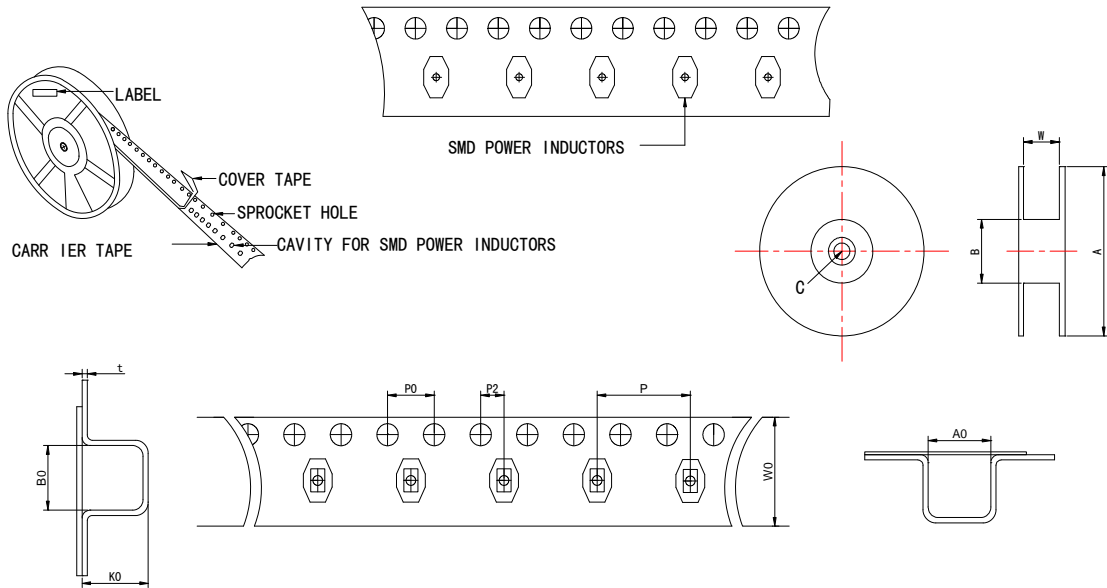
### HS-SF02506 SERIES

Part Number	Inductance <sup>1</sup> ( $\mu$ H)	DCR(max) ( $\Omega$ )	SRF(typ.) (MHz)	Isat <sup>2</sup> (A)	I rms <sup>3</sup> (A rms)
HS-SF02506-4R7M	4.7	0.145	90	1.6	1.90
HS-SF02506-6R8M	6.8	0.165	75	1.3	1.70
HS-SF02506-100M	10	0.24	60	1.00	1.50
HS-SF02506-150M	15	0.3	45	0.9	1.30
HS-SF02506-220M	22	0.42	35	0.7	1.00
HS-SF02506-330M	33	0.55	30	0.6	0.90
HS-SF02506-470M	47	0.765	22	0.5	0.70
HS-SF02506-680M	68	1.1	20	0.4	0.60
HS-SF02506-101M	100	1.6	15	0.3	0.50
HS-SF02506-151M	150	2.5	12	0.25	0.40
HS-SF02506-221M	220	3.65	10	0.22	0.32
HS-SF02506-331M	330	4.65	8.0	0.18	0.28
HS-SF02506-471M	470	6.75	6.5	0.14	0.24
HS-SF02506-681M	680	9.15	5.5	0.12	0.20
HS-SF02506-102M	1000	14.2	4.5	0.1	0.16

- 1、 Tested at 100KHz ,0.1Vrms.
- 2、 Inductance drop=10% typ. at rated Isat.
- 3、  $\Delta T=40^{\circ}\text{C}$  rise typ.at I rms.
- 4、 Operating temperature range- $40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$ .
- 5、 Electrical specifications at  $25^{\circ}\text{C}$ .

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### ●Reel Dimensions & Packing Unit

UNIT: (mm)

Part Number	Dimensions of Reel				Packaging Unit
	A	B	C	W	
HS-SF01704	330	100.0±2.00	13.50±0.50	16±0.50	1000pcs/r
HS-SF02506	330	100.0±2.00	13.50±0.50	16±0.50	1000pcs/r

### ●Carrier Tape Dimensions

UNIT: (mm)

Sym.	HS-SF01704	HS-SF02506
A0	7.10±0.10	9.6±0.10
B0	6.00±0.10	8.3±0.10
K0	1.5±0.10	1.8±0.10
P	8.0±0.10	8.0±0.10
P0	4.00±0.10	4.00±0.10
P2	2.00±0.10	2.00±0.10
W0	16.00±0.30	16.00±0.30
t	0.4±0.10	0.4±0.10