

SHENZHEN HIGHSTARTECH ELECTRONICS CO., LTD

HSSFE SERIES

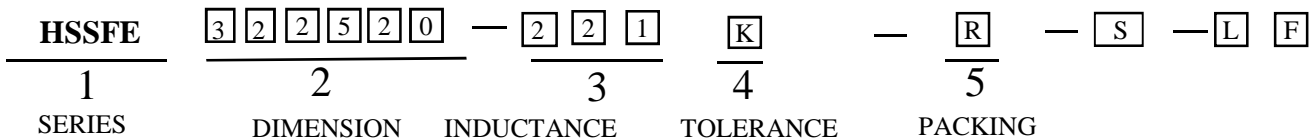
1. FEATURES:

HSSFE series consists of miniature chip inductors wire wound on a special ferrite core.

2. APPLICATIONS:

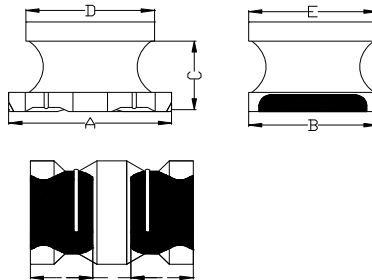
- (1) High Q value at high frequencies and low DC resistance.
- (2) Wide inductance range from 1.0 to 2200 mH.

3. PART NUMBER SYSTEM:



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

4. PHYSICAL CHARACTERISTICS:



Type	A	B	C	D	E	F	G
HS-SFE322520	3.2±0.2	2.5±0.2	2.0±0.2	2.5±0.2	2.5±0.2	0.9±0.3	1.3±0.2
HS-SFE453226	4.5±0.3	3.2±0.2	2.6±0.2	3.6±0.2	3.2±0.2	1.0min	1.0min

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5. ELECTRICAL CHARACTERISTICS:

Part Number	Inductance (μ H)	Test Frequency	Rated Current	Max. of DC resistance	Q(min)	Test Frequency	SRF (typ.) (MHz)	
HS-SFE322520-1R0M	1.0 μ H \pm 20%	1MHz	445mA	0.5ohm	20	1MHz	100MHz	
HS-SFE322520-1R2M	1.2 μ H \pm 20%	1MHz	425mA	0.6ohm	20	1MHz	100MHz	
HS-SFE322520-1R5K	1.5 μ H \pm 10%	1MHz	400mA	0.6ohm	20	1MHz	75MHz	
HS-SFE322520-1R8K	1.8 μ H \pm 10%	1MHz	390mA	0.7ohm	20	1MHz	60MHz	
HS-SFE322520-2R2K	2.2 μ H \pm 10%	1MHz	370mA	0.8ohm	20	1MHz	50MHz	
HS-SFE322520-2R7K	2.7 μ H \pm 10%	1MHz	320mA	0.9ohm	20	1MHz	43MHz	
HS-SFE322520-3R3K	3.3 μ H \pm 10%	1MHz	300mA	1.0ohm	20	1MHz	38MHz	
HS-SFE322520-3R9K	3.9 μ H \pm 10%	1MHz	290mA	1.1ohm	20	1MHz	35MHz	
HS-SFE322520-4R7K	4.7 μ H \pm 10%	1MHz	270mA	1.2ohm	20	1MHz	31MHz	
HS-SFE322520-5R6K	5.6 μ H \pm 10%	1MHz	250mA	1.3ohm	20	1MHz	28MHz	
HS-SFE322520-6R8K	6.8 μ H \pm 10%	1MHz	240mA	1.5ohm	20	1MHz	25MHz	
HS-SFE322520-8R2K	8.2 μ H \pm 10%	1MHz	225mA	1.6ohm	20	1MHz	23MHz	
HS-SFE322520-100J	10 μ H \pm 5%	1MHz	190mA	1.8ohm	35	1MHz	20MHz	
HS-SFE322520-100K	10 μ H \pm 10%	1MHz	190mA	1.8ohm	35	1MHz	20MHz	

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HS-SFE322520-120J	12uH±5%	1MHz	180mA	2.0ohm	35	1MHz	18MHz	
HS-SFE322520-120K	12uH±10%	1MHz	180mA	2.0ohm	35	1MHz	18MHz	
HS-SFE322520-150J	15uH±5%	1MHz	170mA	2.2ohm	35	1MHz	16MHz	
HS-SFE322520-150K	15uH±10%	1MHz	170mA	2.2ohm	35	1MHz	16MHz	
HS-SFE322520-180J	18uH±5%	1MHz	165mA	2.5ohm	35	1MHz	15MHz	
HS-SFE322520-180K	18uH±10%	1MHz	165mA	2.5ohm	35	1MHz	15MHz	
HS-SFE322520-220J	22uH±5%	1MHz	150mA	2.8ohm	35	1MHz	14MHz	
HS-SFE322520-220K	22uH±10%	1MHz	150mA	2.8ohm	35	1MHz	14MHz	
HS-SFE322520-270J	27uH±5%	1MHz	125mA	3.1ohm	35	1MHz	13MHz	
HS-SFE322520-270K	27uH±10%	1MHz	125mA	3.1ohm	35	1MHz	13MHz	
HS-SFE322520-330J	33uH±5%	1MHz	115mA	3.5ohm	40	1MHz	12MHz	
HS-SFE322520-330K	33uH±10%	1MHz	115mA	3.5ohm	40	1MHz	12MHz	
HS-SFE322520-390J	39uH±5%	1MHz	110mA	3.9ohm	40	1MHz	11MHz	
HS-SFE322520-390K	39uH±10%	1MHz	110mA	3.9ohm	40	1MHz	11MHz	
HS-SFE322520-470J	47uH±5%	1MHz	100mA	4.3ohm	40	1MHz	11MHz	
HS-SFE322520-470K	47uH±10%	1MHz	100mA	4.3ohm	40	1MHz	11MHz	
HS-SFE322520-560J	56uH±5%	1MHz	85mA	4.9ohm	40	1MHz	10MHz	
HS-SFE322520-560K	56uH±10%	1MHz	85mA	4.9ohm	40	1MHz	10MHz	

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Part Number	Inductance (μ H)	Test Frequency	Rated Current	Max. of DC resistance	Q(min)	Test Frequency	SRF (typ.) (MHz)
HS-SFE322520-680J__	68 μ H \pm 5%	1MHz	80mA	5.5ohm	40	1MHz	9MHz
HS-SFE322520-680K__	68 μ H \pm 10%	1MHz	80mA	5.5ohm	40	1MHz	9MHz
HS-SFE322520-820J__	82 μ H \pm 5%	1MHz	80mA	6.2ohm	40	1MHz	8.5MHz
HS-SFE322520-820K__	82 μ H \pm 10%	1MHz	80mA	6.2ohm	40	1MHz	8.5MHz
HS-SFE322520-101J__	100 μ H \pm 5%	1MHz	80mA	7.0ohm	40	796KHz	8MHz
HS-SFE322520-101K__	100 μ H \pm 10%	1MHz	80mA	7.0ohm	40	796KHz	8MHz
HS-SFE322520-121J__	120 μ H \pm 5%	1MHz	75mA	8.0ohm	40	796KHz	7.5MHz
HS-SFE322520-121K__	120 μ H \pm 10%	1MHz	75mA	8.0ohm	40	796KHz	7.5MHz
HS-SFE322520-151J__	150 μ H \pm 5%	1MHz	70mA	9.3ohm	40	796KHz	7MHz
HS-SFE322520-151K__	150 μ H \pm 10%	1MHz	70mA	9.3ohm	40	796KHz	7MHz
HS-SFE322520-181J__	180 μ H \pm 5%	1MHz	65mA	10.2ohm	40	796KHz	6MHz
HS-SFE322520-181K__	180 μ H \pm 10%	1MHz	65mA	10.2ohm	40	796KHz	6MHz
HS-SFE322520-221J__	220 μ H \pm 5%	1MHz	65mA	11.8ohm	40	796KHz	5.5MHz
HS-SFE322520-221K__	220 μ H \pm 10%	1MHz	65mA	11.8ohm	40	796KHz	5.5MHz
HS-SFE322520-271J__	270 μ H \pm 5%	1MHz	65mA	12.5ohm	40	796KHz	5MHz
HS-SFE322520-271K__	270 μ H \pm 10%	1MHz	65mA	12.5ohm	40	796KHz	5MHz
HS-SFE322520-331J__	330 μ H \pm 5%	1MHz	65mA	13.0ohm	40	796KHz	5MHz
HS-SFE322520-331K__	330 μ H \pm 10%	1MHz	65mA	13.0ohm	40	796KHz	5MHz
HS-SFE322520-391J__	390 μ H \pm 5%	1MHz	65mA	22.0ohm	50	796KHz	5MHz
HS-SFE322520-391K__	390 μ H \pm 10%	1MHz	65mA	22.0ohm	50	796KHz	5MHz
HS-SFE322520-471J__	470 μ H \pm 5%	1KHz	50mA	25.0ohm	50	796KHz	5MHz
HS-SFE322520-471K__	470 μ H \pm 10%	1KHz	50mA	25.0ohm	50	796KHz	5MHz
HS-SFE322520-561J__	560 μ H \pm 5%	1KHz	45mA	28.0ohm	50	796KHz	5MHz
HS-SFE322520-561K__	560 μ H \pm 10%	1KHz	45mA	28.0ohm	50	796KHz	5MHz

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Part Number	Inductance (μ H)	Test Frequency	Rated Current	Max. of DC resistance	Q(min)	Test Frequency	SRF (typ.) (MHz)
HS-SFE453226-1R0M__	1.0uH \pm 20%	1MHz	500mA	0.20ohm	20	1MHz	120MHz
HS-SFE453226-1R2M__	1.2uH \pm 20%	1MHz	500mA	0.20ohm	20	1MHz	100MHz
HS-SFE453226-1R5M__	1.5uH \pm 20%	1MHz	500mA	0.30ohm	20	1MHz	85MHz
HS-SFE453226-1R8M__	1.8uH \pm 20%	1MHz	500mA	0.30ohm	20	1MHz	75MHz
HS-SFE453226-2R2M__	2.2uH \pm 20%	1MHz	500mA	0.30ohm	20	1MHz	62MHz
HS-SFE453226-2R7M__	2.7uH \pm 20%	1MHz	500mA	0.32ohm	20	1MHz	53MHz
HS-SFE453226-3R3M__	3.3uH \pm 20%	1MHz	500mA	0.35ohm	20	1MHz	47MHz
HS-SFE453226-3R9M__	3.9uH \pm 20%	1MHz	500mA	0.38ohm	20	1MHz	41MHz
HS-SFE453226-4R7K__	4.7uH \pm 10%	1MHz	500mA	0.40ohm	30	1MHz	38MHz
HS-SFE453226-5R6K__	5.6uH \pm 10%	1MHz	500mA	0.47ohm	30	1MHz	33MHz
HS-SFE453226-6R8K__	6.8uH \pm 10%	1MHz	450mA	0.50ohm	30	1MHz	31MHz
HS-SFE453226-8R2K__	8.2uH \pm 10%	1MHz	450mA	0.56ohm	30	1MHz	27MHz
HS-SFE453226-100J__	10uH \pm 5%	1MHz	400mA	0.56ohm	35	1MHz	23MHz
HS-SFE453226-100K__	10uH \pm 10%	1MHz	400mA	0.56ohm	35	1MHz	23MHz
HS-SFE453226-120J__	12uH \pm 5%	1MHz	380mA	0.62ohm	35	1MHz	21MHz
HS-SFE453226-120K__	12uH \pm 10%	1MHz	380mA	0.62ohm	35	1MHz	21MHz
HS-SFE453226-150J__	15uH \pm 5%	1MHz	360mA	0.73hm	35	1MHz	19MHz
HS-SFE453226-150K__	15uH \pm 10%	1MHz	360mA	0.73ohm	35	1MHz	19MHz
HS-SFE453226-180J__	18uH \pm 5%	1MHz	340mA	0.82ohm	35	1MHz	17MHz
HS-SFE453226-180K__	18uH \pm 10%	1MHz	340mA	0.82ohm	35	1MHz	17MHz
HS-SFE453226-220J__	22uH \pm 5%	1MHz	320mA	0.94ohm	35	1MHz	15MHz
HS-SFE453226-220K__	22uH \pm 10%	1MHz	320mA	0.94ohm	35	1MHz	15MHz
HS-SFE453226-270J__	27uH \pm 5%	1MHz	300mA	1.1ohm	35	1MHz	14MHz
HS-SFE453226-270K__	27uH \pm 10%	1MHz	300mA	1.1ohm	35	1MHz	14MHz

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HS-SFE453226-330J__	33uH±5%	1MHz	270mA	1.2ohm	35	1MHz	12MHz
HS-SFE453226-330K__	33uH±10%	1MHz	270mA	1.2ohm	35	1MHz	12MHz
HS-SFE453226-390J__	39uH±5%	1MHz	240mA	1.4ohm	35	1MHz	11MHz
HS-SFE453226-390K__	39uH±10%	1MHz	240mA	1.4ohm	35	1MHz	11MHz
HS-SFE453226-470J__	47uH±5%	1MHz	220mA	1.5ohm	35	1MHz	10MHz
HS-SFE453226-470K__	47uH±10%	1MHz	220mA	1.5ohm	35	1MHz	10MHz
HS-SFE453226-560J__	56uH±5%	1MHz	200mA	1.7ohm	35	1MHz	9.3MHz
HS-SFE453226-560K__	56uH±10%	1MHz	200mA	1.7ohm	35	1MHz	9.3MHz
HS-SFE453226-680J__	68uH±5%	1MHz	180mA	1.9ohm	35	1MHz	8.4MHz
HS-SFE453226-680K__	68uH±10%	1MHz	180mA	1.9ohm	35	1MHz	8.4MHz
HS-SFE453226-820J__	82uH±5%	1MHz	170mA	2.2ohm	35	1MHz	7.5MHz
HS-SFE453226-820K__	82uH±10%	1MHz	170mA	2.2ohm	35	1MHz	7.5MHz
HS-SFE453226-101J__	100uH±5%	1MHz	160mA	2.5ohm	40	796KHz	6.8MHz
HS-SFE453226-101K__	100uH±10%	1MHz	160mA	2.5ohm	40	796KHz	6.8MHz
HS-SFE453226-121J__	120uH±5%	1MHz	150mA	3.0ohm	40	796KHz	6.2MHz
HS-SFE453226-121K__	120uH±10%	1MHz	150mA	3.0ohm	40	796KHz	6.2MHz
HS-SFE453226-151J__	150uH±5%	1MHz	130mA	3.7ohm	40	796KHz	5.5MHz
HS-SFE453226-151K__	150uH±10%	1MHz	130mA	3.7ohm	40	796KHz	5.5MHz
HS-SFE453226-181J__	180uH±5%	1MHz	120mA	4.5ohm	40	796KHz	5MHz
HS-SFE453226-181K__	180uH±10%	1MHz	120mA	4.5ohm	40	796KHz	5MHz
HS-SFE453226-221J__	220uH±5%	1MHz	110mA	5.4ohm	40	796KHz	4.5MHz
HS-SFE453226-221K__	220uH±10%	1MHz	110mA	5.4ohm	40	796KHz	4.5MHz
HS-SFE453226-271J__	270uH±5%	1MHz	100mA	6.8ohm	40	796KHz	4MHz
HS-SFE453226-271K__	270uH±10%	1MHz	100mA	6.8ohm	40	796KHz	4MHz
HS-SFE453226-331J__	330uH±5%	1MHz	95mA	8.2ohm	40	796KHz	3.6MHz
HS-SFE453226-331K__	330uH±10%	1MHz	95mA	8.2ohm	40	796KHz	3.6MHz
HS-SFE453226-391J__	390uH±5%	1MHz	90mA	9.7ohm	40	796KHz	3.3MHz

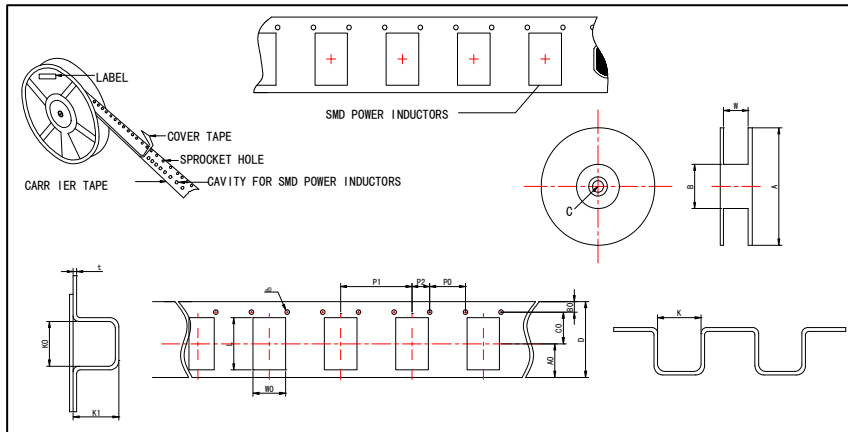
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Part Number	Inductance (μ H)	Test Frequency	Rated Current	Max. of DC resistance	Q (min)	Test Frequency	SRF (typ.) (MHz)
HS-SFE453226-391K__	390uH \pm 10%	1MHz	90mA	9.7ohm	40	796kHz	3.3MHz
HS-SFE453226-471J__	470uH \pm 5%	1KHz	80mA	11.8hm	40	796kHz	3MHz
HS-SFE453226-471K__	470uH \pm 10%	1KHz	80mA	11.8ohm	40	796kHz	3MHz
HS-SFE453226-561J__	560uH \pm 5%	1KHz	70mA	14.5ohm	40	796kHz	2.7MHz
HS-SFE453226-561K__	560uH \pm 10%	1KHz	70mA	14.5ohm	40	796kHz	2.7MHz
HS-SFE453226-681J__	680uH \pm 5%	1KHz	65mA	17.0ohm	40	796kHz	2.5MHz
HS-SFE453226-681K__	680uH \pm 10%	1KHz	65mA	17.0ohm	40	796kHz	2.5MHz
HS-SFE453226-821J__	820uH \pm 5%	1KHz	60mA	20.5ohm	40	796kHz	2.2MHz
HS-SFE453226-821K__	820uH \pm 10%	1KHz	60mA	20.5ohm	40	796kHz	2.2MHz
HS-SFE453226-102J__	1000uH \pm 5%	1KHz	50mA	25.0ohm	40	252KHz	2MHz
HS-SFE453226-102K__	1000uH \pm 10%	1KHz	50mA	25.0ohm	40	252KHz	2MHz
HS-SFE453226-122J__	1200uH \pm 5%	1KHz	45mA	30.0ohm	40	252KHz	1.8MHz
HS-SFE453226-122K__	1200uH \pm 10%	1KHz	45mA	30.0ohm	40	252KHz	1.8MHz
HS-SFE453226-152J__	1500uH \pm 5%	1KHz	40mA	37.0ohm	40	252KHz	1.6MHz
HS-SFE453226-152K__	1500uH \pm 10%	1KHz	40mA	37.0ohm	40	252KHz	1.6MHz
HS-SFE453226-182J__	1800uH \pm 5%	1KHz	35mA	45.0ohm	40	252KHz	1.5MHz
HS-SFE453226-182K__	1800uH \pm 10%	1KHz	35mA	45.0ohm	40	252KHz	1.5MHz
HS-SFE453226-222J__	2200uH \pm 5%	1KHz	30mA	50.0ohm	40	252KHz	1.3MHz
HS-SFE453226-222K__	2200uH \pm 10%	1KHz	30mA	50.0ohm	40	252KHz	1.3MHz

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●Reel Dimensions & Packing Unit

UNIT:mm

Part Number	Dimensions Of Reel				Packaging Unit
	A	B	C	W	
HS-SFE322520	330	100.0±2.00	13.50±0.50	8.0±0.50	2000pcs/r
HS-SFE453226	330	100.0±2.00	13.50±0.50	12.0±0.50	2000pcs/r

●Carrier Tape Dimensions

UNIT:mm

Sym.	HS-SFE322526	HS-SFE453226
A0	2.75±0.10	4.75±0.10
B0	1.75±0.10	1.75±0.10
C0	3.5±0.10	5.5±0.10
D	8.00±0.30	12.00±0.30
K	3.65±0.20	4.92±0.20
K0	2.88±0.20	3.7±0.20
K1	2.5±0.10	2.95±0.10
L	3.65±0.20	4.92±0.20
W0	2.88±0.20	3.7±0.20
P0	4.00±0.10	4.00±0.10
P1	4.005±0.10	8.00±0.10
P2	2.00±0.05	2.00±0.05
d0	1.55±0.05	1.55±0.05
t	0.40±0.05	0.40±0.05