

SHENZHEN HIGHSTARTECH ELECTRONICS CO., LTD

HSSFC 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 making them the ideal inductance for DC-DC conversion in the following applications.

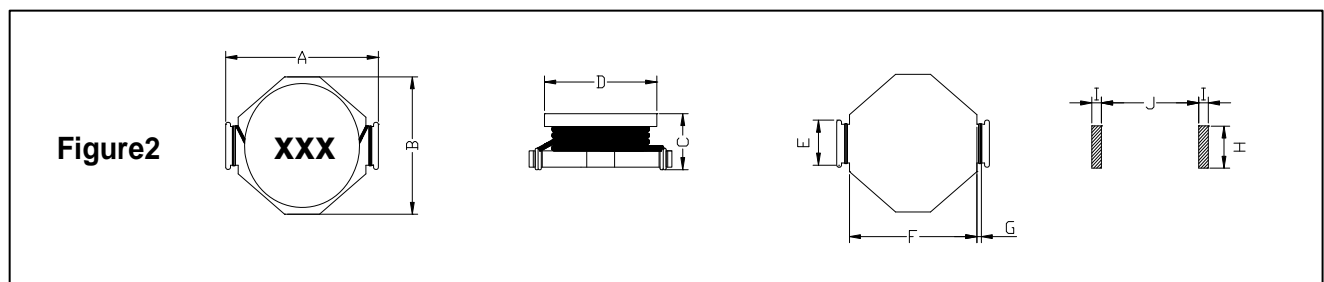
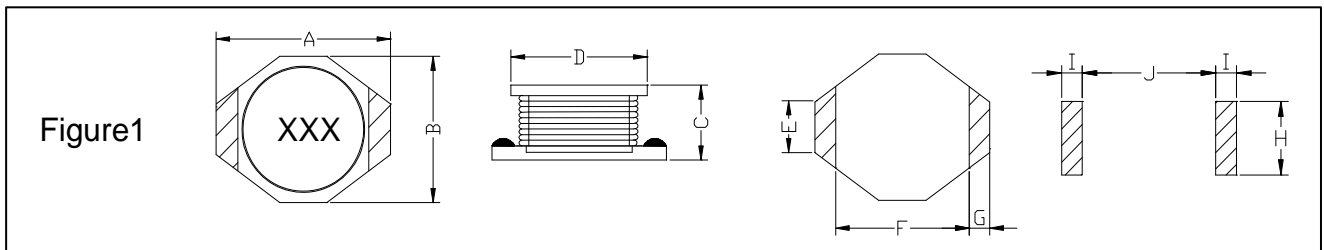
2. APPLICATIONS:

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

3. PART NUMBER SYSTEM:

<u>HS-SFC</u>	<u>1608</u>	<u>F</u>	<u>100</u>	<u>M</u>	<u>R</u>	<u>S</u> - <u>L</u> <u>F</u>
1	2	3	4	5	6	
SERIES NAME	DIMENSIONS	TYPE	INDUCTANCE	TOLERANCE CODE	PACKING CODE	
C-CERAMIC BASE (陶瓷基座)		C-WITH RI (有磁罩)		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)
P-LCP BASE (LCP基座)		F-WITHOUT RI (无磁罩)				

4. PHYSICAL CHARACTERISTICS:



Type	A (max)	B (max)	C	D (max)	E (ref.)	F (ref.)	G (ref.)	Figure
HS-SFC1608F	6.6	4.45	2.92	3.9	1.27	4.32	1.02	1

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5. ELECTRICAL CHARACTERISTICS:

Part Number	Inductance ¹ (μ H)	DCR(max) (Ω)	SRF (typ.) (MHz)	Isat ² (A)	Irms ³ (A rms)
HS-SFC1608F-1R0M	1.0	0.05	130	2.90	2.9
HS-SFC1608F-1R5M	1.5	0.06	115	2.60	2.8
HS-SFC1608F-2R2M	2.2	0.07	100	2.3	2.4
HS-SFC1608F-3R3M	3.3	0.08	70	2.00	2.0
HS-SFC1608F-4R7M	4.7	0.09	50	1.50	1.5
HS-SFC1608F-6R8M	6.8	0.13	45	1.20	1.4
HS-SFC1608F-100M	10.00	0.16	35	1.10	1.2
HS-SFC1608F-150M	15.00	0.23	30	0.90	1.1
HS-SFC1608F-220M	22.00	0.37	20	0.70	0.8
HS-SFC1608F-330M	33.00	0.51	15	0.58	0.6
HS-SFC1608F-470M	47.00	0.64	14	0.50	0.5
HS-SFC1608F-680M	68.00	0.86	11	0.40	0.4
HS-SFC1608F-101M	100.00	1.27	9	0.31	0.3
HS-SFC1608F-151M	150.00	2.00	6	0.27	0.25
HS-SFC1608F-221M	220.00	3.11	5.5	0.22	0.2
HS-SFC1608F-331M	330.00	3.80	5	0.18	0.16
HS-SFC1608F-471M	470.00	5.06	4	0.16	0.15
HS-SFC1608F-681M	680.00	9.20	3	0.14	0.12
HS-SFC1608F-102M	1000.00	13.80	2	0.10	0.07

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Part Number	Inductance ¹ (μ H)	Q(min)	DCR(max) (Ω)	SRF (typ.) (MHz)	IDC(A) ² (max)
HS-SFC1608C-1R0N	1.0	30@200KHz	0.040	250	3.00
HS-SFC1608C-1R5N	1.5	30@200KHz	0.045	125	2.80
HS-SFC1608C-2R2N	2.2	40@200KHz	0.050	120	1.80
HS-SFC1608C-3R3N	3.3	40@200KHz	0.055	120	1.60
HS-SFC1608C-4R7N	4.7	40@200KHz	0.060	105	1.40
HS-SFC1608C-6R8N	6.8	40@200KHz	0.065	50	1.20
HS-SFC1608C-100N	10.00	40@200KHz	0.075	38	1.00
HS-SFC1608C-150N	15.00	40@100KHz	0.09	33	0.80
HS-SFC1608C-220N	22.00	40@100KHz	0.11	25	0.70
HS-SFC1608C-330N	33.00	40@100KHz	0.19	20	0.60
HS-SFC1608C-470N	47.00	40@100KHz	0.23	20	0.50
HS-SFC1608C-680N	68.00	40@100KHz	0.29	15	0.40
HS-SFC1608C-101M	100.00	40@100KHz	0.48	10	0.30
HS-SFC1608C-151M	150.00	40@100KHz	0.59	9	0.26
HS-SFC1608C-221M	220.00	40@100KHz	0.88	6	0.22
HS-SFC1608C-331M	330.00	40@100KHz	1.40	5	0.20
HS-SFC1608C-471M	470.00	40@100KHz	1.80	4	0.19
HS-SFC1608C-681M	680.00	40@100KHz	2.8	3	0.18
HS-SFC1608C-102M	1000.00	40@100KHz	4.2	2	0.15
HS-SFC1608C-152M	1500.00	50@100KHz	5.2	2	0.12
HS-SFC1608C-222M	2200.00	50@100KHz	8.50	2	0.10
HS-SFC1608C-332M	3300.00	50@100KHz	11.00	1	0.08
HS-SFC1608C-472M	4700.00	50@100KHz	13.90	1	0.06
HS-SFC1608C-682M	6800.00	50@100KHz	25.00	1	0.04
HS-SFC1608C-103M	10000.00	50@100KHz	38.2	0.8	0.02

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Part Number	Inductance (μH) @100kHz	DCR(max) (Ω)	SRF (typ.) (MHz)	Inductance Rating1 (μH)	Current Rating2 (A)	Max. Energy Storage (μ Joules)	Max. Switching Frequency
HS-SFC1608DT-1R0M	1.0	0.065	180	0.60	2.0	1.8	1MHz
HS-SFC1608DT-1R5M	1.5	0.070	120	0.80	1.9	1.8	1MHz
HS-SFC1608DT-2R2M	2.2	0.075	100	0.90	1.5	1.8	1MHz
HS-SFC1608DT-3R3M	3.3	0.080	70	1.5	1.2	1.4	1MHz
HS-SFC1608DT-4R7M	4.7	0.085	60	2.0	1.2	1.6	1MHz
HS-SFC1608DT-6R8M	6.8	0.090	50	3.0	1.0	1.9	1MHz
HS-SFC1608DT-100M	10	0.125	45	5.0	0.7	1.2	1MHz
HS-SFC1608DT-150M	15	0.135	35	6.0	0.6	1.1	1MHz
HS-SFC1608DT-220M	22	0.160	25	10	0.5	1.2	1MHz
HS-SFC1608DT-330M	33	0.275	20	12	0.45	1.5	1MHz
HS-SFC1608DT-470M	47	0.300	17	20	0.34	1.3	1MHz
HS-SFC1608DT-680M	68	0.575	14	30	0.29	1.4	1MHz
HS-SFC1608DT-101M	100	1.10	12	40	0.24	1.5	1MHz
HS-SFC1608DT-151M	150	1.40	7	60	0.20	1.4	500KMHz
HS-SFC1608DT-221M	220	2.25	7	90	0.17	1.6	500KMHz
HS-SFC1608DT-331M	330	2.90	6	100	0.16	1.4	500KMHz
HS-SFC1608DT-471M	470	3.60	4	150	0.14	1.5	500KMHz
HS-SFC1608DT-681M	680	4.55	3.5	200	0.12	1.4	500KMHz
HS-SFC1608DT-102M	1000	8.10	2.5	400	0.08	1.4	500KMHz