



深圳市宏创捷电子有限公司

Shenzhen Hongchuangjie Electronic Co., Ltd.

规格确认书

SPECIFICATION

客 户

CUSTOMER:

客 户 料 号

CUSTOMER P/N:

物 料 名 称

功率电感

MODEL NO:

Power inductor

料 号

HS 系列

P/N:

HS series

文 件 编 号

FILE NO:

22-07

日期: 2022-07-22

承办人: 刘俊

DATE: July 22, 2022

ISSUEDER: Liu Jun

客户确认 APPROVED BY

签名:

日期:

SIGN:

DATE:

结论 RESULT:

确认后请回传 PLEASE RETURN BY ONE COPY

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●特征

电流负载高达 20A。
低损耗铁粉芯。
低漏磁场。
根据要求定制设计。

●用途

开关电源、通讯设备、工业设备等。

●FEATURES

Current loading up to 20 A.
Iron powder cores with low losses.
Low magnetically leakage field.
Custom designs on request.

●Applications

Switching power supply, Communication equipments, industrial equipments

●品名系统

HS 1306 F 100 M - L N
① ② ③ ④ ⑤ ⑥ ⑦

① 产品代号: 功率电感。

② 尺寸规格: 1106=11×11×6(mm)
1206=12×12×6(mm)
1306=13×13×6(mm)
1607=16×16×7(mm)
2010=20×20×10(mm)
2410=24×24×10(mm)
2712=27×27×12(mm)
3215=32×32×15(mm)
3818=38×38×18(mm)

③ 材质: M/F/N

④ 电感量标称值: 100=10μH

⑤ 精度: M=±20%

⑥ 封装形式: L/L2=立式 W=卧式

⑦ N: 标准; B: 大电流; S: 小电流; 其他要求可以定制。

●Product Identification

HS 1306 F 100 M - L N
① ② ③ ④ ⑤ ⑥ ⑦

① Product symbol: Power inductor.

② Dimension: 1106=11×11×6(mm)
1206=12×12×6(mm)
1306=13×13×6(mm)
1607=16×16×7(mm)
2010=20×20×10(mm)
2410=24×24×10(mm)
2712=27×27×12(mm)
3215=32×32×15(mm)
3818=38×38×18(mm)

③ Material: M/F/N

④ Inductance: 100=10μH

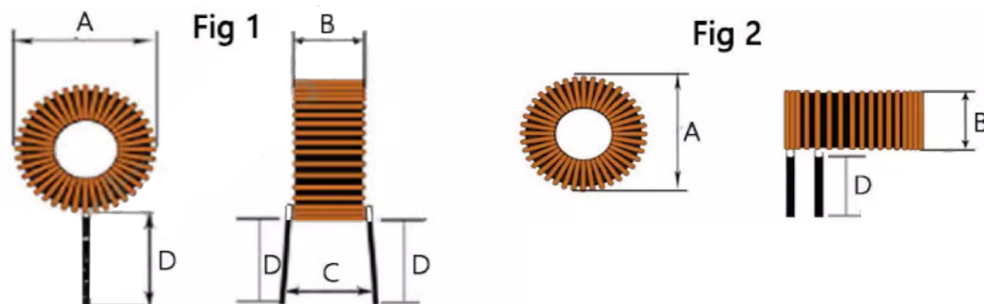
⑤ Material: M=±20%

⑥ Placement method: L/L2=Vertical W=Horizontal

⑦ N: standard; B: Large wire diameter; S: Small wire diameter. Customization is available upon request.

●结构及尺寸

Structure And Dimensions



Type	Dimensions(mm)			
	A(Max)	B(Max)	C(Max)	D(Min)
1106	11	6	6	8
1206	12	6	6	8
1306	13	6	6	8
1607	16	7	7	8
2010	20	10	10	8
2410	24	10	10	8
2712	27	12	12	8
3215	32	15	15	8
3818	38	18	18	8

脚距/排距及外观尺寸.参数仅供参考，其它规格及要求可以定做。

Foot spacing/row spacing and appearance size parameters are for reference only, other specifications and requirements can be customized.

●规格

Specifications

Part Number	Inductance 0.3V 1KHz $\mu\text{H}\pm 20\%$	DCR $\text{m}\Omega$	I _{rms} A	I _{sat1} A	I _{sat2} A
HS1306F6R8M-□□	6.8	8	8	3.20	7.5
HS1306F100M-□□	10	11	7	2.65	6
HS1306F150M-□□	15	15	6	2.15	5
HS1306F220M-□□	22	18	5	1.80	4
HS1306F330M-□□	33	20	4.8	1.45	3.3
HS1306F470M-□□	47	22	4.5	1.23	2.8
HS1306F680M-□□	68	40	4	1.00	2.35
HS1306F101M-□□	100	45	3.5	0.85	2
HS1607F3R3M-□□	3.3	6	10	5.60	12.5
HS1607F4R7M-□□	4.7	7	9	4.70	10.5
HS1607F100M-□□	10	9	8	3.20	7
HS1607F150M-□□	15	10	8	2.63	6
HS1607F220M-□□	22	15	7	2.17	5
HS1607F330M-□□	33	20	6	1.77	4
HS1607F470M-□□	47	26	5.8	1.48	3.3
HS1607F560M-□□	56	33	5.5	1.36	3
HS1607F680M-□□	68	35	5	1.23	2.75
HS1607F101M-□□	100	50	4	1.02	2.3

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●规格

Specifications

Part Number	Inductance 0.3V 1KHz $\mu\text{H} \pm 20\%$	DCR m Ω	I _{rms} A	I _{sat1} A	I _{sat2} A
HS1607F151M-□□	150	88	3.2	0.83	1.85
HS1607F221M-□□	220	100	3	0.69	1.55
HS2010F3R3M-□□	3.3	2	20	8.42	19
HS2010F4R7M-□□	4.7	3	16	7.05	16
HS2010F100M-□□	10	5	12	4.84	11
HS2010F150M-□□	15	8	10	3.95	9
HS2010F220M-□□	22	9	10	3.26	7.3
HS2010F330M-□□	33	17	8	2.66	6
HS2010F470M-□□	47	23	7.5	2.23	5
HS2010F680M-□□	68	24	7	1.85	4.2
HS2010F101M-□□	100	32	6.5	1.53	3.5
HS2010F151M-□□	150	80	6	1.25	2.8
HS2010F221M-□□	220	100	5	1.03	2.3
HS2410F4R7M-□□	4.7	3	20	8.42	20
HS2410F100M-□□	10	5	15	5.77	13.5
HS2410F150M-□□	15	6	12	4.71	11
HS2410F220M-□□	22	7	11	3.89	9.2
HS2410F330M-□□	33	12	10	3.18	7.5
HS2410F470M-□□	47	14	9	2.66	6.35
HS2410F680M-□□	68	24	8	2.21	5.25
HS2410F101M-□□	100	25	7	1.82	4.3
HS2410F151M-□□	150	29	6	1.49	3.5
HS2410F221M-□□	220	45	5.5	1.23	2.9
HS2410F331M-□□	330	60	5	1.00	2.4
HS2410F391M-□□	390	75	4.5	0.92	2.2
HS2410F471M-□□	470	90	3.5	0.84	2
HS2712F100M-□□	10	4	20	6.96	15.5
HS2712F150M-□□	15	5	17	5.68	13
HS2712F220M-□□	22	4	15	4.69	10.5
HS2712F330M-□□	33	10	13	3.83	8.6
HS2712F470M-□□	47	12	11	3.21	7.3
HS2712F680M-□□	68	17	10	2.67	6
HS2712F101M-□□	100	23	8	2.20	5
HS2712F151M-□□	150	25	7	1.80	4
HS2712F221M-□□	220	40	6	1.48	3.3
HS2712F331M-□□	330	55	5.5	1.21	2.7
HS2712F391M-□□	390	70	4.5	1.11	2.5
HS2712F471M-□□	470	85	4	1.01	2.3
HS3215F100M-□□	10	3	30	7.64	18
HS3215F150M-□□	15	5	20	6.24	14.5
HS3215F220M-□□	22	5	22	5.15	12
HS3215F330M-□□	33	7	20	4.20	10

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Specifications

Part Number	Inductance 0.3V 1KHz $\mu\text{H} \pm 20\%$	DCR m Ω	I _{rms} A	I _{sat1} A	I _{sat2} A
HS3215F470M-□□	47	8	20	3.52	8.2
HS3215F680M-□□	68	13	15	2.93	6.9
HS3215F101M-□□	100	18	15	2.41	5.6
HS3215F151M-□□	150	27	9	1.97	4.6
HS3215F221M-□□	220	32	9	1.63	3.8
HS3215F331M-□□	330	46	8	1.33	3.1
HS3215F391M-□□	390	53	8	1.22	2.9
HS3215F471M-□□	470	55	6	1.11	2.6
HS3818F4R7M-□□	4.7	2	30	11	28
HS3818F100M-□□	10	3	30	7.64	19
HS3818F150M-□□	15	4	25	6.24	15.5
HS3818F220M-□□	22	5	23	5.15	13
HS3818F330M-□□	33	6	23	4.20	10.5
HS3818F470M-□□	47	8	23	3.52	8.9
HS3818F680M-□□	68	12	18	2.93	7.35
HS3818F101M-□□	100	15	18	2.41	6
HS3818F151M-□□	150	20	10	1.97	5
HS3818F221M-□□	220	30	10	1.63	4.1
HS3818F331M-□□	330	40	10	1.33	3.3
HS3818F391M-□□	390	45	10	1.22	3
HS3818F471M-□□	470	50	10	1.11	2.8

Notes

All test data is referenced to 25°C ambient.

I_{rms} current:DC current(A)that will cause an approximate ΔT of 40 °C .(reference ambient temperature is 25°C)

I_{sat1}:DC current(A)that will cause LO to dropapproximately 20%.

I_{sat2}:DC current(A)that will cause LO to dropapproximately 50%.

The part temperature(ambient+temp rise)should not exceed 125°C under worst case operating conditions.Circuit design,component placement,PWB trace size and thickness,airflow and other cooling provisions all affect the part temperature.Part temperature should be verified in the end application.