

SMD Power Inductor(HLSD Series) 贴片功率电感 HLSD 系列

FEATURES 特点

- High heat resistance and excellent solderability.
良好的可焊性
- Excellent terminal strength construction.
良好的焊盘结构
- Surface mount inductor with high current rating.
大电流表面贴装电感



APPLICATIONS 应用

- Ideally used in Digital camera, notebook PC, LCD TV set, DC-DC Converters, etc.
用于数码相机、笔记本电脑、LCD 电视、DC-DC 转换等。

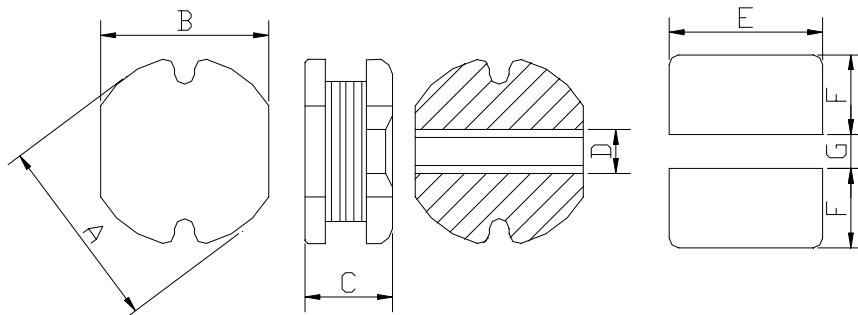
Product Identification 产品标识

HLSD 32 - 3R3 M - LF

① ② ③ ④ ⑤

- ① Series name 系列名称
- ② Product dimensions 产品尺寸: (3.5*3.0*2.1 mm)
- ③ Inductance Value 电感量: (3R3:3.3uH 100: 10uH; 101:100uH)
- ④ Inductance Tolerance 电感量公差: (K:10% ; M:20% ; N:30%)
- ⑤ Lead free products 无铅产品

Shapes And Dimensions 外形及尺寸示意图



Series	Dimensions(mm)						
	A	B	C	D	E	F	G
HLSD32	3.5±0.3	3.0±0.3	2.1±0.3	1.0 Ref.	3.5	1.3	1.0
HLSD43	4.5±0.3	4.0±0.3	3.2±0.3	1.4 Ref.	4.5	1.8	1.5
HLSD54	5.8±0.3	5.2±0.3	4.5±0.5	1.6 Ref.	5.8	2.2	1.7
HLSD75	7.8±0.3	7.0±0.3	5.0±0.5	2.4 Ref.	7.5	3.0	2.0

Electrical Characteristics 电气性能

HLSD32 Series

Part Number	L (uH)	Tolerance	Test freq. (MHz)	DCR max. (Ω)	Rated Current (A)
HLSD32-1R0M-LF	1.0	±20%	7.96	0.07	2.10
HLSD32-1R2M-LF	1.2	±20%	7.96	0.08	1.70
HLSD32-1R8M-LF	1.8	±20%	7.96	0.09	1.32
HLSD32-2R2M-LF	2.2	±20%	7.96	0.10	1.28
HLSD32-2R7M-LF	2.7	±20%	7.96	0.11	1.24
HLSD32-3R3M-LF	3.3	±20%	7.96	0.14	1.18
HLSD32-3R9M-LF	3.9	±20%	7.96	0.14	1.15
HLSD32-4R7M-LF	4.7	±20%	7.96	0.17	1.04
HLSD32-5R6M-LF	5.6	±20%	7.96	0.18	1.00
HLSD32-6R8M-LF	6.8	±20%	7.96	0.20	0.880
HLSD32-8R2M-LF	8.2	±20%	7.96	0.22	0.780
HLSD32-100K-LF	10	±10%	0.10	0.23	0.760
HLSD32-120K-LF	12	±10%	0.10	0.27	0.685
HLSD32-150K-LF	15	±10%	0.10	0.31	0.635
HLSD32-180K-LF	18	±10%	0.10	0.41	0.525
HLSD32-220K-LF	22	±10%	0.10	0.47	0.500
HLSD32-270K-LF	27	±10%	0.10	0.66	0.405
HLSD32-330K-LF	33	±10%	0.10	0.76	0.380
HLSD32-390K-LF	39	±10%	0.10	0.85	0.355
HLSD32-470K-LF	47	±10%	0.10	0.97	0.330
HLSD32-560K-LF	56	±10%	0.10	1.25	0.290
HLSD32-680K-LF	68	±10%	0.10	1.45	0.275
HLSD32-820K-LF	82	±10%	0.10	1.85	0.235
HLSD32-101K-LF	100	±10%	0.10	2.20	0.220
MGSD32-121K-LF	120	±10%	0.10	2.90	0.185
HLSD32-151K-LF	150	±10%	0.10	3.40	0.170
HLSD32-181K-LF	180	±10%	0.10	3.90	0.165
HLSD32-221K-LF	220	±10%	0.10	4.50	0.155

1. Rated Current: it is either the inductance is 10% lower than its nominal value in D.C. saturation characteristics or temperature raise becomes $\Delta T=40^\circ\text{C}$, whichever is lower.

HLSD43 Series

Part Number	L (uH)	tolerance	Test freq. (MHz)	DCR max. (Ω)	Rated Current (A)
HLSD43-1R0M-LF	1.0	±20%	7.96	48.7	2.70
HLSD43-1R4M-LF	1.4	±20%	7.96	56.2	2.50
HLSD43-1R8M-LF	1.8	±20%	7.96	63.7	2.33
HLSD43-2R2M-LF	2.2	±20%	7.96	71.2	2.25
HLSD43-2R7M-LF	2.7	±20%	7.96	78.7	2.16
HLSD43-3R3M-LF	3.3	±20%	7.96	86.2	2.00
HLSD43-3R9M-LF	3.9	±20%	7.96	93.7	1.84
HLSD43-4R7M-LF	4.7	±20%	7.96	108.7	1.62
HLSD43-5R6M-LF	5.6	±20%	7.96	125.7	1.48
HLSD43-6R8M-LF	6.8	±20%	7.96	131.2	1.43
HLSD43-8R2M-LF	8.2	±20%	7.96	146.2	1.37
HLSD43-100M-LF	10	±20%	2.52	182	1.04
HLSD43-120M-LF	12	±20%	2.52	210	0.97
HLSD43-150M-LF	15	±20%	2.52	235	0.85
HLSD43-180M-LF	18	±20%	2.52	338	0.74
HLSD43-220M-LF	22	±20%	2.52	378	0.68
HLSD43-270M-LF	27	±20%	2.52	522	0.62
HLSD43-330K-LF	33	±10%	2.52	540	0.56
HLSD43-390K-LF	39	±10%	2.52	587	0.52
HLSD43-470K-LF	47	±10%	2.52	844	0.44
HLSD43-560K-LF	56	±10%	2.52	937	0.42
HLSD43-680K-LF	68	±10%	2.52	1117	0.37

1. Rated Current: it is either the inductance is 10% lower than its nominal value in D.C. saturation characteristics or temperature raise becomes $\Delta T=40^\circ\text{C}$, whichever is lower.

HLSD54 Series

Part Number	L (uH)	tolerance	Tst freq. (Hz)	DCR max. (Ω)	Rated Current (A)
HLSD54-100M-LF	10	±20%	2.52M	0.10	1.44
HLSD54-120M-LF	12	±20%	2.52M	0.12	1.40
HLSD54-150M-LF	15	±20%	2.52M	0.14	1.30
HLSD54-180M-LF	18	±20%	2.52M	0.15	1.23
HLSD54-220M-LF	22	±20%	2.52M	0.18	1.11
HLSD54-270M-LF	27	±20%	2.52M	0.20	0.97
HLSD54-330L-LF	33	±15%	2.52M	0.23	0.88
HLSD54-390L-LF	39	±15%	2.52M	0.32	0.80
HLSD54-470L-LF	47	±15%	2.52M	0.37	0.72
HLSD54-560K-LF	56	±10%	2.52M	0.42	0.68
HLSD54-680K-LF	68	±10%	2.52M	0.46	0.61
HLSD54-820K-LF	82	±10%	2.52M	0.60	0.58
HLSD54-101K-LF	100	±10%	1K	0.70	0.52
HLSD54-121K-LF	120	±10%	1K	0.93	0.48
HLSD54-151K-LF	150	±10%	1K	1.10	0.40
HLSD54-181K-LF	180	±10%	1K	1.38	0.38
HLSD54-221K-LF	220	±10%	1K	1.57	0.35

1. Rated Current: it is either the inductance is 10% lower than its nominal value in D.C. saturation characteristics or temperature raise becomes $\Delta T=40^{\circ}\text{C}$, whichever is lower.

HLSD75 Series

Part Number	L±10% (uH)	Test freq. (Hz)	DCR max. (Ω)	Rated Current (A)
HLSD75-100K-LF	10	2.52M	0.07	2.3
HLSD75-120K-LF	12	2.52M	0.08	2.0
HLSD75-150K-LF	15	2.52M	0.09	1.8
HLSD75-180K-LF	18	2.52M	0.10	1.6
HLSD75-220K-LF	22	2.52M	0.11	1.5
HLSD75-270K-LF	27	2.52M	0.12	1.3
HLSD75-330K-LF	33	2.52M	0.13	1.2
HLSD75-390K-LF	39	2.52M	0.16	1.1
HLSD75-470K-LF	47	2.52M	0.18	1.1
HLSD75-560K-LF	56	2.52M	0.24	0.94
HLSD75-680K-LF	68	2.52M	0.28	0.85
HLSD75-820K-LF	82	2.52M	0.37	0.78
HLSD75-101K-LF	100	1K	0.43	0.72
HLSD75-121K-LF	120	1K	0.47	0.66
HLSD75-151K-LF	150	1K	0.64	0.58
HLSD75-181K-LF	180	1K	0.71	0.51
HLSD75-221K-LF	220	1K	0.96	0.49
HLSD75-271K-LF	270	1K	1.11	0.42
HLSD75-331K-LF	330	1K	1.26	0.40
HLSD75-391K-LF	390	1K	1.77	0.36
HLSD75-471K-LF	470	1K	1.96	0.34

1. Rated Current: it is either the inductance is 10% lower than its nominal value in D.C. saturation characteristics or temperature raise becomes $\Delta T=40^\circ\text{C}$, whichever is lower.
