



# HLTN8040

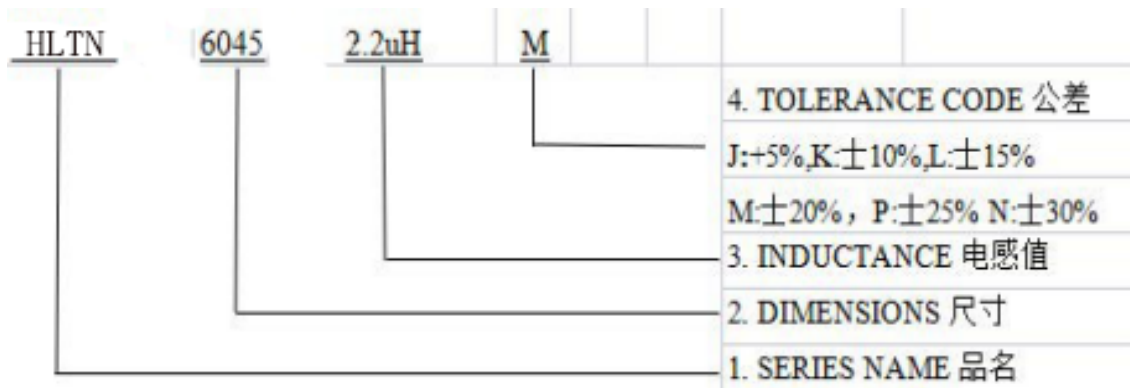
## FEATURES 特性

1. Small and very Thin inductor 小型, 超薄电感器
2. Magnetic-resin shielded construction reduces buzz noise to ultra-low levels  
磁性胶水涂敷结构极大减少了蜂鸣声
3. Takes up less PCB real estate and save more power 省空间, 更省电

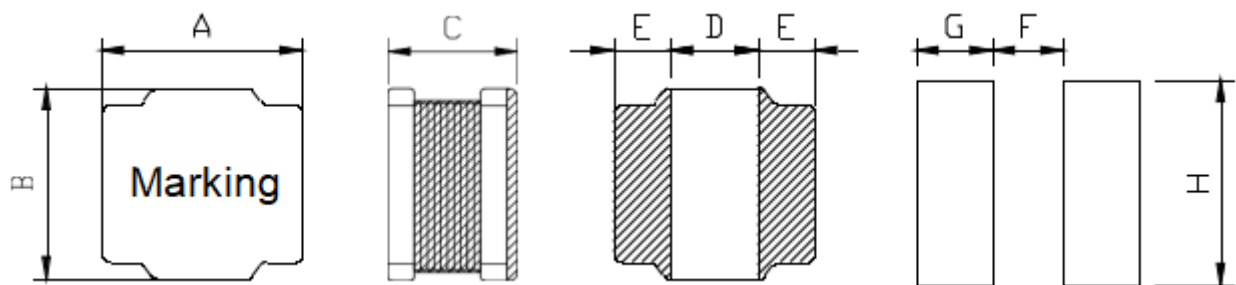
## APPLICATIONS 用途

1. LED Lighting LED 照明
2. Automotive systems 汽车产品
3. Notebooks, desktop computers, servers, graphic cards 笔记本电脑, 台式电脑, 服务器, 显卡

Product title	Size (LxWxH)	Inductance	Rated current
HLTN8040	8.0±0.3mm/8.0±0.3mm/4.2mm Max	0.82~1000uH	6.30~0.35A



## PART NUMBERING SYSTEM



TYPE(型号)	A	B	C	D	E	F	G	H
HLTN8040	8.0±0.3	8.0±0.3	4.2Max	3.8±0.3	2.1±0.3	3.6	2.2	7.5



## SPECIFICATION TABLE:

PART NUMBER 品名	INDUCTANCE ( $\mu$ H) 电感值	DCR ( $\pm 30\%$ ) ( $\Omega$ ) 直流电阻	Isat (Max.) (A) 饱和电流	Irms (Max.) (A) 额定电流	S.R.F. (Min.) (MHz) 自谐频率
HLTN8040- 0.82uH/N	0.82 $\pm 30\%$	0.008	13.80	6.30	94
HLTN8040- 1.0uH/N	1.0 $\pm 30\%$	0.008	9.85	6.30	89
HLTN8040- 1.5uH/N	1.5 $\pm 30\%$	0.010	8.15	5.65	67
HLTN8040- 2.2uH/N	2.2 $\pm 30\%$	0.012	7.10	5.15	41
HLTN8040- 3.3uH/N	3.3 $\pm 30\%$	0.017	6.50	4.40	27
HLTN8040- 4.7uH/N	4.7 $\pm 30\%$	0.019	5.90	4.10	24
HLTN8040- 6.8uH/M	6.8 $\pm 20\%$	0.024	4.55	3.60	20
HLTN8040- 8.2uH/M	8.2 $\pm 20\%$	0.026	4.20	3.45	17



HLTN8040-10uH/M	10±20%	0.042	3.60	3.30	15
HLTN8040-15uH/M	15±20%	0.047	2.95	2.60	12
HLTN8040-18uH/M	18±20%	0.053	2.70	2.40	11
HLTN8040-22uH/M	22±20%	0.069	2.40	2.10	9.5
HLTN8040-33uH/M	33±20%	0.097	2.05	1.80	7.8
HLTN8040-47uH/M	47±20%	0.136	1.75	1.55	6.4
HLTN8040-68uH/M	68±20%	0.196	1.45	1.25	4.9
HLTN8040-82uH/M	82±20%	0.225	1.30	1.15	4.9
HLTN8040-100uH/M	100±20%	0.290	1.15	1.00	4.2
HLTN8040-120uH/M	120±20%	0.334	1.05	0.95	3.5
HLTN8040-150uH/M	150±20%	0.410	1.10	0.85	3.5
HLTN8040-220uH/M	220±20%	0.599	0.85	0.80	3.5



HLTN8040- 330uH/M	330±20%	0.889	0.68	0.64	2.8
HLTN8040- 470uH/M	470±20%	1.260	0.60	0.54	2.1
HLTN8040- 680uH/M	680±20%	2.040	0.50	0.45	1.7
HLTN8040- 1mH/M	1000±20%	2.800	0.40	0.35	1.4

**Remark:**

1. Inductance Tested at 1MHz, 0.25Vrms (20°C)

2. Isat: DC current at which the inductance drops approximate 30% from its value without current;

3. Irms: DC current that causes the temperature rise ( $\Delta T = 40^\circ\text{C}$ ) from 25°C ambient.

4. Operating Temperature :  $-25^\circ\text{C} \sim +125^\circ\text{C}$