



# HLTYH1707

## FEATURES 特性

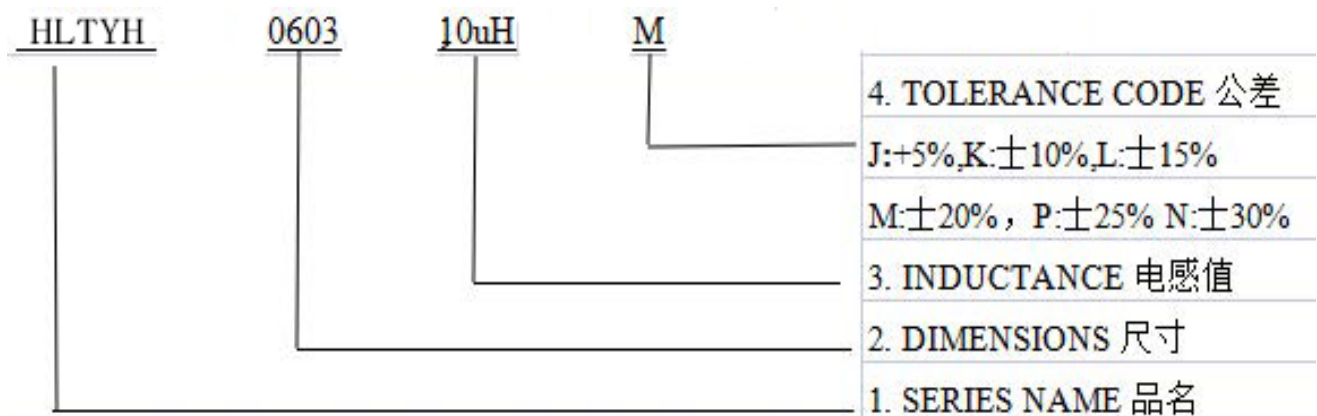
- 1.Magnetic shield structure, closed magnetic circuit, strong anti-electromagnetic interference, ultra-low buzzer, high-density installation. 磁屏蔽结构,闭合磁路,抗电磁干扰强,超低蜂鸣声,可高密度安装.
- 2.Small size, large current, range up to 60A, in high frequency and high temperature environment to maintain excellent temperature rise current and saturation current characteristics.小体积,大电流,范围可到60A,在高频和高温环境下保持优良的温升电流及饱和电流特性.
- 3.Low loss alloy powder die-casting, low resistance. Strong structure, high product accuracy.低损耗合金粉末压铸,低电阻.结构牢固,产品精准度高.
- 4.Wide operating frequency range, up to 5MHz or more. Halogen-free environmental protection products.工作频率范围广,可达5MHz以上. 无卤环保产品.

## APPLICATIONS 用途

1. PAD/Notebook/Desktop/Server applications PAD, 笔记本电脑, 台式机, 服务器,
2. DC/DC converter DC/DC转换器

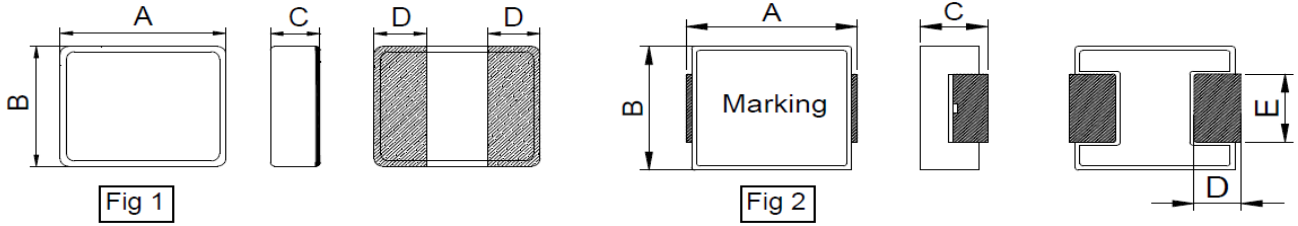
Product title	Size (LxWxH)	Inductance	Rated current
HLTYH1707	17.5±1.0mm/17.5mm Max/7.0mm Max	1μH~100μH	32.00A~4.00A

## PART NUMBERING SYSTEM

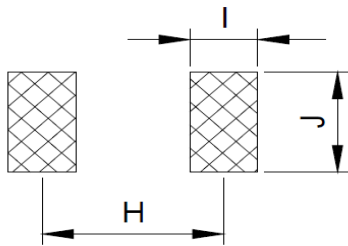




## SHAPES AND DIMENSIONS 外形尺寸 (Unit:mm)



TYPE(型号)	A	B	C	D	E	Fig
HLTYH1707	17.5±1.0	17.5 Max.	7.0 Max	2.5±0.5	11.94±0.3	2



TYPE(型号)	H	I	J
HLTYH1707	13.8	3.4	12.6

### SPECIFICATION TABLE:

PART NUMBER	INDUCTANCE (μH)	DCR (mΩ) @25°C		Heat Rating Current	Saturation Current DC
		Typical	Maximum	DC Amps. Idc (A)	Amps. Isat (A)
HLTYH1707-1uH/M	1±20%	1.50	1.90	32.00	55.50
HLTYH1707-1.5uH/M	1.5±20%	2.10	2.80	23.00	40.00
HLTYH1707-2.2uH/M	2.2±20%	2.30	3.00	18.00	40.00
HLTYH1707-3.3uH/M	3.3±20%	2.90	3.20	15.00	35.00
HLTYH1707-4.7uH/M	4.7±20%	4.40	5.80	13.00	30.00
HLTYH1707-6.8uH/M	6.8±20%	6.20	8.00	10.50	22.50



HLTYH1707- 8.2uH/M	8.2±20%	10.00	13.00	9.50	20.00
HLTYH1707- 10uH/M	10±20%	10.00	13.00	9.50	19.00
HLTYH1707- 15uH/M	15±20%	16.50	22.00	9.00	14.00
HLTYH1707- 22uH/M	22±20%	20.00	26.00	8.50	12.00
HLTYH1707- 33uH/M	33±20%	30.00	38.50	8.00	10.70
HLTYH1707- 47uH/M	47±20%	43.00	53.00	6.00	8.70
HLTYH1707- 56uH/M	56±20%	55.00	60.50	5.20	7.20
HLTYH1707- 68uH/M	68±20%	58.00	79.00	4.50	6.10
HLTYH1707- 100uH/M	100±20%	103.00	123.00	4.00	5.00

**Remark:**

All test data is reference to 25°C ambient.

Test Condition : 1MHz , 1Vrms

Idc : DC current (A) that will cause an approximate  $\Delta T$  of 40°C

Isat : DC current (A) that will cause L0 to drop approximately 30% Typ.

Operat between temperature range -40°C to +125°C (Including self - temperature rise)

Absolute maximum voltage: DC 25V