



# HLTYH06012

## FEATURES 特性

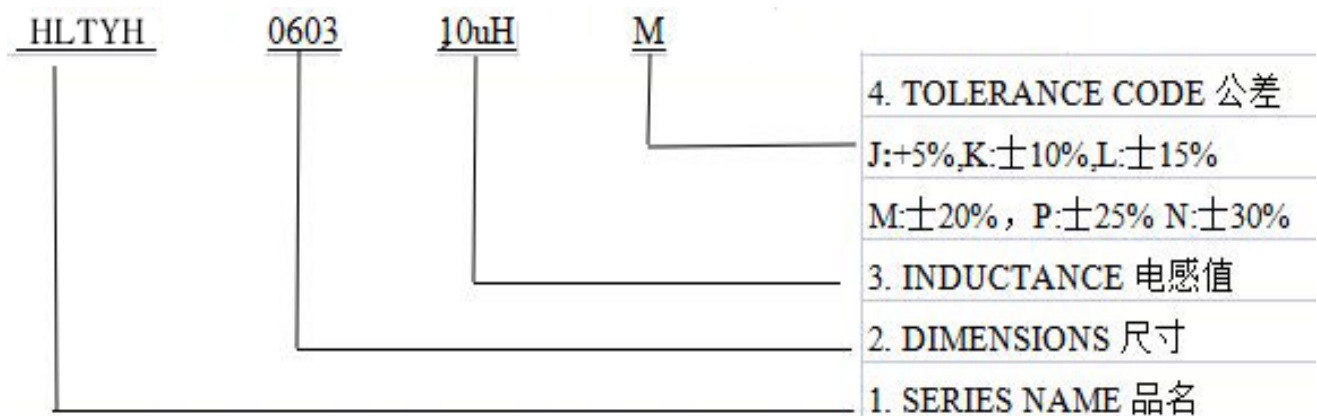
- 1.Magnetic shield structure, closed magnetic circuit, strong anti-electromagnetic interference, ultra-low buzzer, high-density installation. 磁屏蔽结构,闭合磁路,抗电磁干扰强,超低蜂鸣声,可高密度安装.
- 2.Small size, large current, range up to 60A, in high frequency and high temperature environment to maintain excellent temperature 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

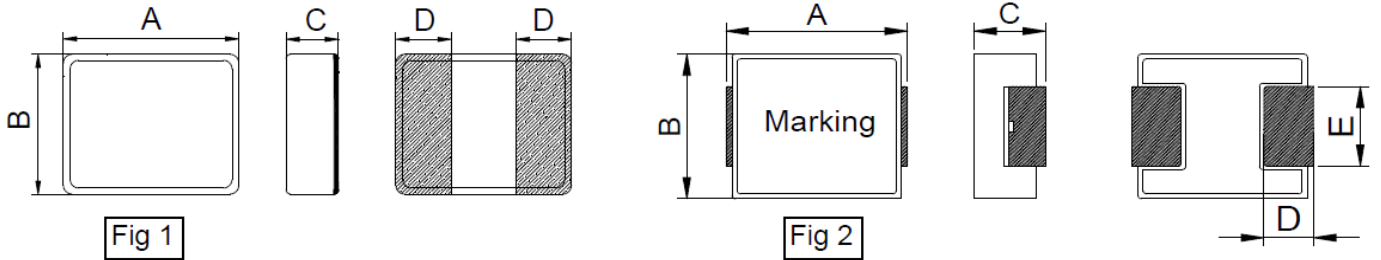
Product title	Size (LxWxH)	Inductance	Rated current
HLTYH06012	7.4mm Max/6.6±0.2mm/1.2mm Max	1μH~10μH	5.5A~1.8A

## PART NUMBERING SYSTEM

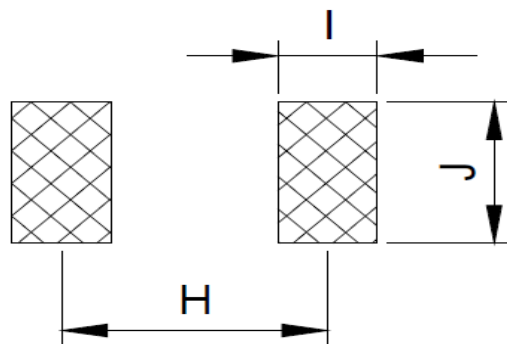




## SHAPES AND DIMENSIONS 外形尺寸 (Unit:mm)



TYPE(型号)	A	B	C	D	E	Fig
HLTYH06012	7.4 Max	6.6±0.2	1.2 Max	1.6±0.3	2.9±0.2	2



TYPE(型号)	H	I	J
HLTYH06012	6.05	2.35	3.5



### SPECIFICATION TABLE:

PART NUMBER	INDUCTANCE ( $\mu$ H)	DCR ( $m\Omega$ ) @25°C		Heat Rating Current DC Amps. Idc (A)	Saturation Current DC Amps. Isat (A)
		Typical	Maximum	Typical	Typical
HLTYH06012P- 1 $\mu$ H/M	1 $\pm$ 20%	25.0	29.0	5.5	6.0
HLTYH06012P- 1.5 $\mu$ H/M	1.5 $\pm$ 20%	38.0	45.0	4.5	4.8
HLTYH06012P- 2.2 $\mu$ H/M	2.2 $\pm$ 20%	51.0	58.0	3.5	4.0
HLTYH06012P- 3.3 $\mu$ H/M	3.3 $\pm$ 20%	80.0	92.0	3.0	3.2
HLTYH06012P- 4.7 $\mu$ H/M	4.7 $\pm$ 20%	106.0	122.0	2.5	2.8
HLTYH06012P- 6.8 $\mu$ H/M	6.8 $\pm$ 20%	185.0	210.0	2.2	2.2
HLTYH06012P- 10 $\mu$ H/M	10 $\pm$ 20%	250.0	280.0	1.8	1.8

**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