



# HLTYH04012

## FEATURES 特性

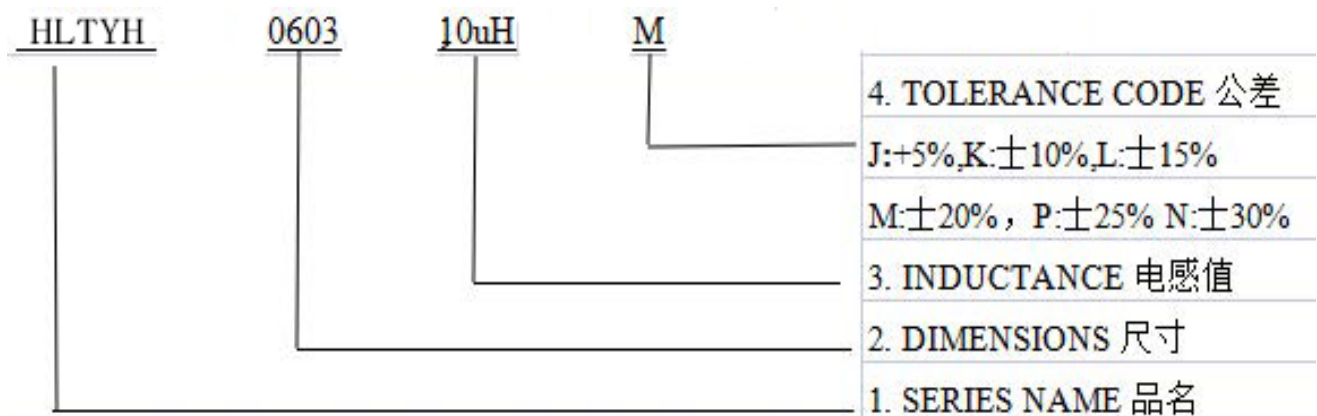
- 1.Magnetic shield structure, closed magnetic circuit, strong anti-electromagnetic interference, ultra-low buzzer, high-density installation. 磁屏蔽结构,闭合磁路,抗电磁干扰强,超低蜂鸣声,可高密度安装.
- 2.Small size, large current, range up to 60A, in high frequency and high temperature environment to maintain excellent temperature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

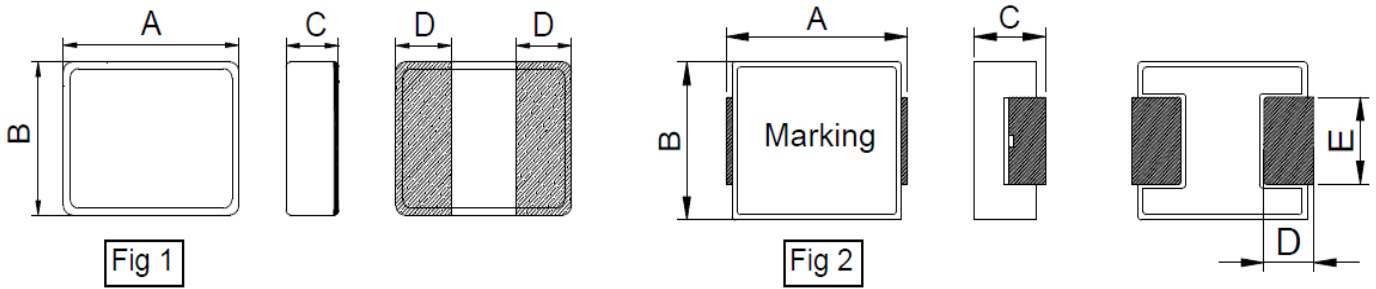
Product title	Size (LxWxH)	Inductance	Rated current
HLTYH04012	4.4±0.35mm/4.2±0.25mm/1.2mm Max	0.15μH~6.8μH	6.8A~1.1A

## PART NUMBERING SYSTEM

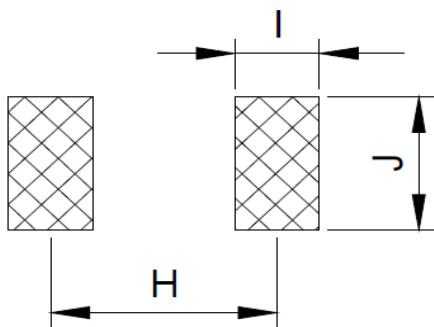




## SHAPES AND DIMENSIONS 外形尺寸 (Unit:mm)



TYPE(型号)	A	B	C	D	E	Fig
HLTYH04012	4.4±0.35	4.2±0.25	1.2 Max	0.8±0.3	2.0±0.3	2



TYPE(型号)	H	I	J
HLTYH04012	3.7	1.26	2.5

## 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)
HLTYH04012P-0.15uH/M	0.15±20%	8.0	9.0	6.8	12.0
HLTYH04012P-0.22uH/M	0.22±20%	8.3	11.0	6.5	8.8
HLTYH04012P-0.33uH/M	0.33±20%	13.5	19.0	5.7	6.7



HLTYH04012P- 0.47uH/M	0.47±20%	16.0	21.0	5.2	5.4
HLTYH04012P- 0.68uH/M	0.68±20%	21.0	36.0	4.2	4.8
HLTYH04012P- 1uH/M	1±20%	40.0	47.0	3.8	4.4
HLTYH04012P- 1.5uH/M	1.5±20%	50.0	75.0	2.7	3.2
HLTYH04012P- 2.2uH/M	2.2±20%	73.0	83.0	2.2	2.4
HLTYH04012P- 4.7uH/M	4.7±20%	130.0	195.0	1.6	1.8
HLTYH04012P- 6.8uH/M	6.8±20%	200.0	300.0	1.1	1.3

**Remark:**

All test data is reference to 25°C ambient.

Test Condition : 1MHz , 1Vrms

Idc : DC current (A) that will cause an approximate Δ 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