



# HLTYH0503

## FEATURES 特性

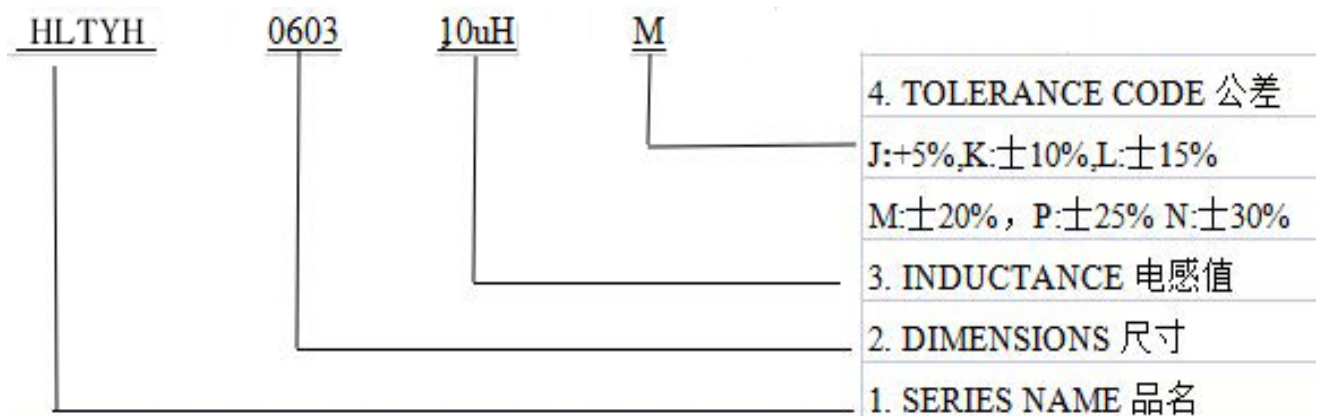
- 1.Magnetic shield structure, closed magnetic circuit, strong anti-electromagnetic interference, ultra-low buzzer, high-density installation. 磁屏蔽结构,闭合磁路,抗电磁干扰强,超低蜂鸣声,可高密度安装.
- 2.Small size, large current, range up to 60A, in high frequency and high temperature environment to maintain excellent temperature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

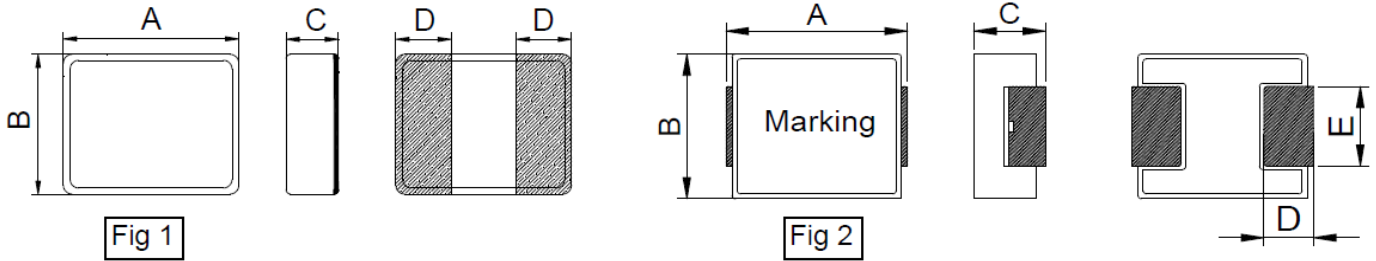
Product title	Size (LxWxH)	Inductance	Rated current
HLTYH0503	5.7±0.25mm/5.1±0.35mm/3.0mm Max	0.33μH~22μH	14.00A~1.30A

## PART NUMBERING SYSTEM

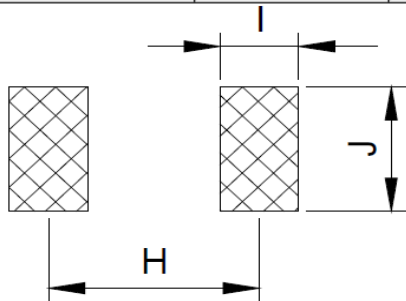




## SHAPES AND DIMENSIONS 外形尺寸 (Unit:mm)



TYPE(型号)	A	B	C	D	E	Fig
HLTYH0503	5.7±0.25	5.1±0.35	3.0 Max	1.3±0.3	2.3±0.3	2



TYPE(型号)	H	I	J
HLTYH0503	4.1	1.9	2.8

### SPECIFICATION TABLE:

PART NUMBER	INDUCTANCE (μH)	DCR (mΩ) @25°C		Heat Rating Current	Saturation Current DC
		Typical	Maximum	DC Amps. I <sub>dc</sub> (A)	Amps. I <sub>sat</sub> (A)
HLTYH0503-0.33uH/M	0.33±20%	5.00	7.00	14.00	18.00
HLTYH0503-0.47uH/M	0.47±20%	6.50	7.50	10.00	12.00
HLTYH0503-0.68uH/M	0.68±20%	11.00	12.00	8.00	12.00
HLTYH0503-1uH/M	1±20%	13.00	15.00	7.00	9.00
HLTYH0503-1.2uH/M	1.2±20%	14.00	15.00	6.50	8.80



HLTYH0503- 1.5uH/M	1.5±20%	17.00	25.00	6.00	8.50
HLTYH0503- 2.2uH/M	2.2±20%	27.00	35.00	5.50	8.00
HLTYH0503- 3.3uH/M	3.3±20%	35.00	46.00	4.50	6.00
HLTYH0503- 4.7uH/M	4.7±20%	50.00	60.00	4.00	5.00
HLTYH0503- 6.8uH/M	6.8±20%	69.00	86.00	3.50	4.50
HLTYH0503- 8.2uH/M	8.2±20%	80.00	105.00	3.25	4.00
HLTYH0503- 10uH/M	10±20%	115.00	126.00	2.50	3.50
HLTYH0503- 15uH/M	15±20%	174.00	190.00	1.80	2.20
HLTYH0503- 22uH/M	22±20%	230.00	260.00	1.30	1.90

**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