



# HLTYH1003

## FEATURES 特性

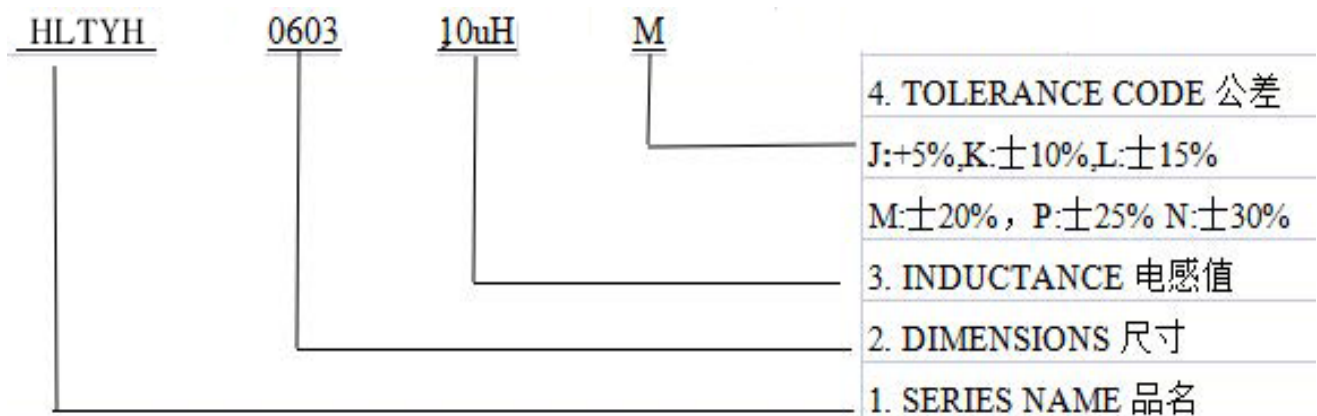
- 1.Magnetic shield structure, closed magnetic circuit, strong anti-electromagnetic interference, ultra-low buzzer, high-density installation. 磁屏蔽结构,闭合磁路,抗电磁干扰强,超低蜂鸣声,可高密度安装.
- 2.Small size, large current, range up to 60A, in high frequency and high temperature environment to maintain excellent temperature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

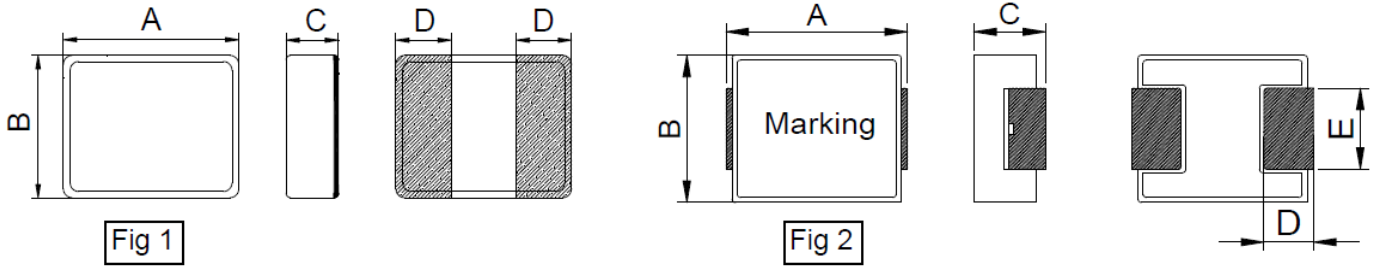
Product title	Size (LxWxH)	Inductance	Rated current
HLTYH1003	11.6mm Max/10.1±0.3mm/3.0mm Max	0.22μH~22μH	30.00A~3.0A

## PART NUMBERING SYSTEM

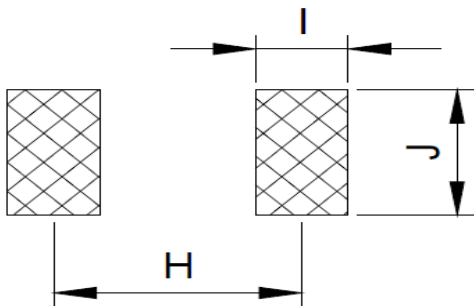




## SHAPES AND DIMENSIONS 外形尺寸 (Unit:mm)



TYPE(型号)	A	B	C	D	E	Fig
HLTYH1003	11.6 Max.	10.1±0.3	3.0 Max	2.5±0.5	3.0±0.5	2



TYPE(型号)	H	I	J
HLTYH1003	9.5	3.5	4.0

### 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)
HLTYH1003-0.22uH/M	0.22±20%	1.07	1.20	30.00	50.00
HLTYH1003-0.33uH/M	0.33±20%	1.30	1.60	23.00	32.00
HLTYH1003-0.47uH/M	0.47±20%	2.10	2.50	23.00	26.00
HLTYH1003-0.56uH/M	0.56±20%	2.40	3.00	22.00	24.00



HLTYH1003- 0.68uH/M	0.68±20%	2.90	3.40	21.00	23.00
HLTYH1003- 1uH/M	1±20%	5.50	6.00	15.00	21.00
HLTYH1003- 1.5uH/M	1.5±20%	6.50	7.50	12.00	18.00
HLTYH1003- 2.2uH/M	2.2±20%	8.00	9.00	11.00	12.00
HLTYH1003- 3.3uH/M	3.3±20%	14.50	16.00	9.00	12.00
HLTYH1003- 4.7uH/M	4.7±20%	20.50	25.00	7.00	10.00
HLTYH1003- 5.6uH/M	5.6±20%	27.00	30.00	6.00	10.00
HLTYH1003- 6.8uH/M	6.8±20%	30.00	35.00	5.50	7.50
HLTYH1003- 8.2uH/M	8.2±20%	35.00	45.00	5.00	7.00
HLTYH1003- 10uH/M	10±20%	50.00	55.00	4.50	6.50
HLTYH1003- 15uH/M	15±20%	59.00	65.00	4.00	5.00
HLTYH1003- 22uH/M	22±20%	90.00	99.00	3.00	4.00

**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