



# HLTYH0603

## FEATURES 特性

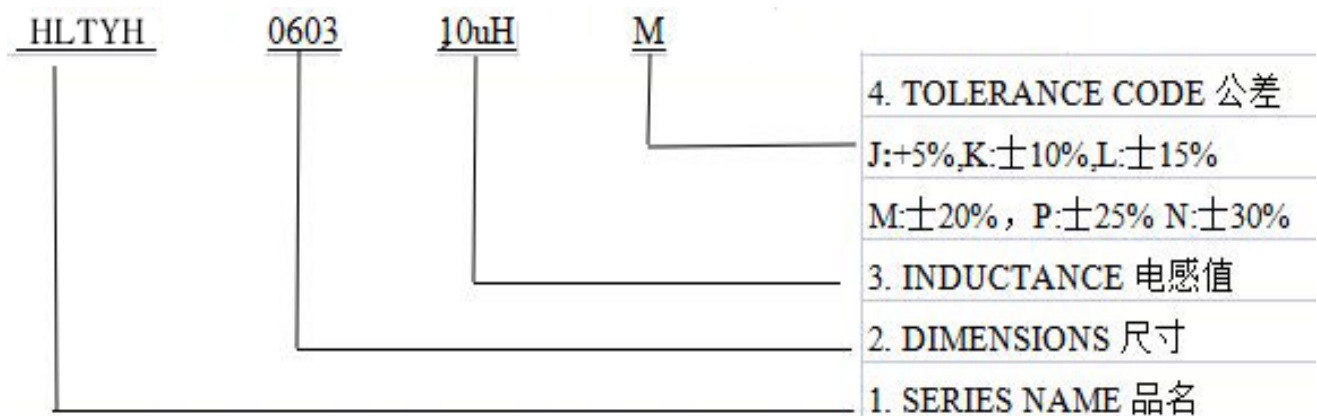
- 1.Magnetic shield structure, closed magnetic circuit, strong anti-electromagnetic interference, ultra-low buzzer, high-density installation. 磁屏蔽结构,闭合磁路,抗电磁干扰强,超低蜂鸣声,可高密度安装.
- 2.Small size, large current, range up to 60A, in high frequency and high temperature environment to maintain excellent temperature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

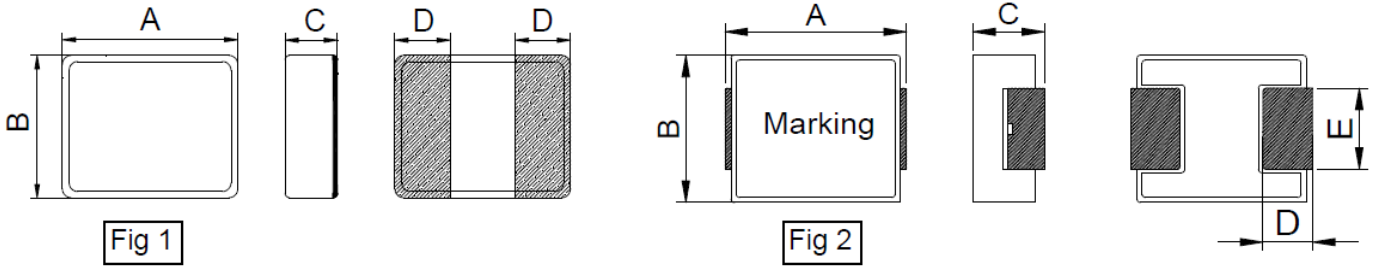
Product title	Size (LxWxH)	Inductance	Rated current
HLTYH0603	7.4mm Max/6.6±0.2mm/3.0mm Max	0.1μH~47μH	32.50A~1.70A

## PART NUMBERING SYSTEM

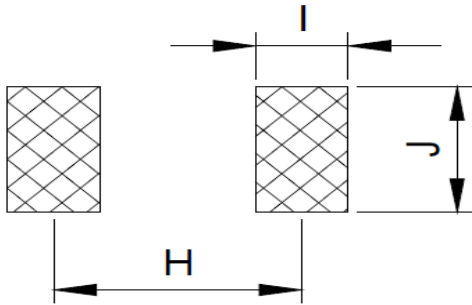




SHAPES AND DIMENSIONS 外形尺寸 (Unit:mm)



TYPE(型号)	A	B	C	D	E	Fig
HLTYH0603	7.4 Max	6.6±0.2	3.0 Max	1.6±0.3	3.0±0.2	2



TYPE(型号)	H	I	J
HLTYH0603	6.05	2.35	3.5

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)
HLTYH0603-0.1uH/M	0.1±20%	1.50	1.70	32.50	60.00
HLTYH0603-0.15uH/M	0.15±20%	1.90	2.50	30.00	50.00
HLTYH0603-0.22uH/M	0.22±20%	2.50	3.00	23.00	34.00



HLTYH0603- 0.33uH/M	0.33±20%	3.00	3.50	21.00	25.00
HLTYH0603- 0.47uH/M	0.47±20%	3.50	4.10	18.00	20.00
HLTYH0603- 0.56uH/M	0.56±20%	4.25	4.50	16.50	18.00
HLTYH0603- 0.68uH/M	0.68±20%	5.30	5.90	16.00	17.00
HLTYH0603- 0.82uH/M	0.82±20%	6.00	7.00	12.00	16.00
HLTYH0603- 1uH/M	1±20%	7.00	7.50	9.00	15.00
HLTYH0603- 1.2uH/M	1.2±20%	8.00	10.00	8.50	14.00
HLTYH0603- 1.5uH/M	1.5±20%	10.60	12.10	8.00	12.50



HLTYH0603- 1.8uH/M	1.8±20%	14.00	16.00	8.00	11.00
HLTYH0603- 2.2uH/M	2.2±20%	15.50	17.50	8.00	10.00
HLTYH0603- 3.3uH/M	3.3±20%	23.00	26.00	6.00	9.50
HLTYH0603- 4.7uH/M	4.7±20%	34.50	38.00	5.00	6.50
HLTYH0603- 6.8uH/M	6.8±20%	47.00	50.00	4.50	6.00
HLTYH0603- 8.2uH/M	8.2±20%	58.50	65.00	4.00	6.00
HLTYH0603- 10uH/M	10±20%	64.00	68.00	4.00	5.00
HLTYH0603- 15uH/M	15±20%	106.00	115.00	2.60	3.80
HLTYH0603- 22uH/M	22±20%	165.00	189.00	2.30	3.10
HLTYH0603- 33uH/M	33±20%	250.00	270.00	2.00	2.50
HLTYH0603- 47uH/M	47±20%	300.00	350.00	1.70	2.00

**Remark:**

All test data is reference to 25°C ambient.

Test Condition : 1MHz , 1Vrms

I<sub>dc</sub> : DC current (A) that will cause an approximate Δ T of 40°C

I<sub>sat</sub> : 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