



HLTYH1205

FEATURES 特性

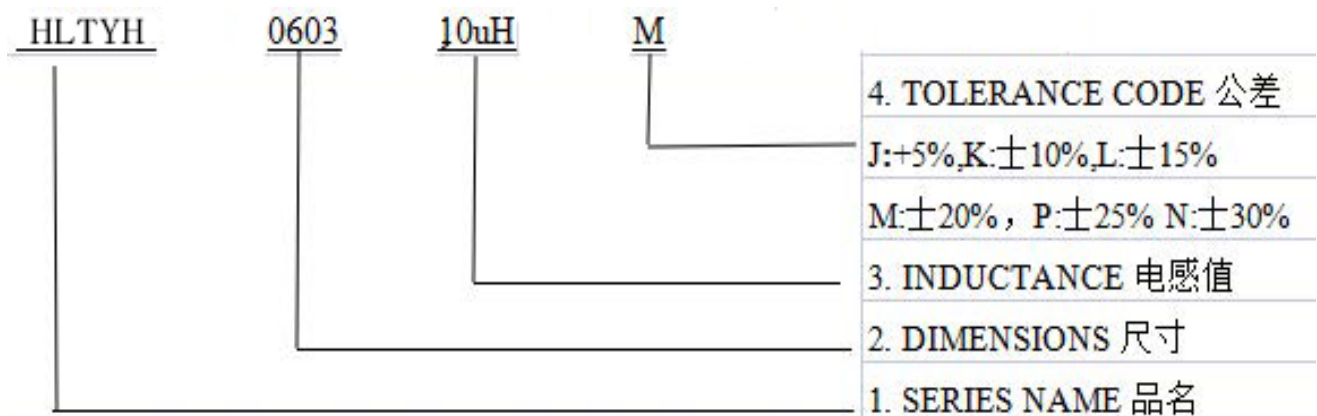
- 1.Magnetic shield structure, closed magnetic circuit, strong anti-electromagnetic interference, ultra-low buzzer, high-density installation. 磁屏蔽结构,闭合磁路,抗电磁干扰强,超低蜂鸣声,可高密度安装.
- 2.Small size, large current, range up to 60A, in high frequency and high temperature environment to maintain excellent temperature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

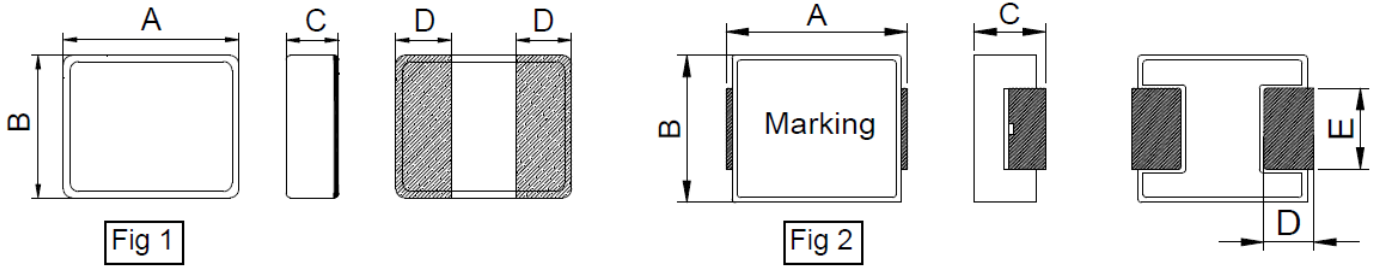
Product title	Size (LxWxH)	Inductance	Rated current
HLTYH1205	13.8mm Max/12.6±0.3mm/5.0mm Max	0.36μH~47μH	41.00A~3.00A

PART NUMBERING SYSTEM

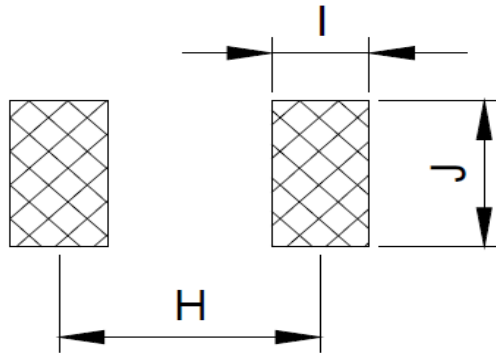




SHAPES AND DIMENSIONS 外形尺寸 (Unit:mm)



TYPE(型号)	A	B	C	D	E	Fig
HLTYH1205	13.8 Max.	12.6±0.3	5.0 Max	2.7±0.7	3.5±0.5	2
HLTYH1205 Copper wire as the terminal	13.8 Max.	12.6±0.3	5.0 Max	2.7±0.7	3.0±0.5/3.5±0.5	2



TYPE(型号)	H	I	J
HLTYH1205	10.5	4	5.5
HLTYH1205 Copper wire as the terminal	10.5	4	5.5



SPECIFICATION TABLE:

PART NUMBER	INDUCTANCE (μH)	DCR (mΩ) @25°C		Heat Rating Current DC Amps. Idc (A)	Saturation Current DC Amps. Isat (A)
		Typical	Maximum	Typical	Typical
HLTYH1205-0.36uH/M	0.36±20%	0.77	1.10	41.00	60.00
HLTYH1205-0.47uH/M	0.47±20%	1.00	1.30	37.00	46.00
HLTYH1205-1uH/M	1±20%	1.90	2.50	29.00	37.00
HLTYH1205-1.5uH/M	1.5±20%	3.40	4.10	23.00	30.00
HLTYH1205-2.2uH/M	2.2±20%	4.00	5.00	15.00	25.00
HLTYH1205-3.3uH/M	3.3±20%	7.50	9.00	12.00	20.00
HLTYH1205-4.7uH/M	4.7±20%	9.00	11.50	11.00	16.00



HLTYH1205- 5.6uH/M	5.6±20%	13.00	15.00	10.50	15.00
HLTYH1205- 6.8uH/M	6.8±20%	18.00	22.00	9.00	14.00
HLTYH1205- 8.2uH/M	8.2±20%	19.00	24.00	8.50	13.00
HLTYH1205- 10uH/M	10±20%	24.00	29.00	7.50	11.00
HLTYH1205- 15uH/M	15±20%	27.00	32.00	6.00	9.00
HLTYH1205- 22uH/M	22±20%	42.00	50.00	5.00	7.00
HLTYH1205- 33uH/M	33±20%	60.00	84.00	3.50	6.00
HLTYH1205- 47uH/M	47±20%	100.00	130.00	3.00	5.00

Remark:

All test data is reference to 25°C ambient.

Test Condition : 1MHz , 1Vrms

I_{dc} : DC current (A) that will cause an approximate Δ T of 40°C

I_{sat} : 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