

承 认 书
SPECIFICATION FOR APPROVAL

客 户 Customer:

产品名称 Project:

电感

规格型号 Part No:

HY1040-XXXM

贵公司承认印 Approval signatures

料 号/Part No.	签 章/Signatures

日期 Date:

拟制/Drawn	王宗华	
审核/Check	陈森森	
批准/Approved	张春华	

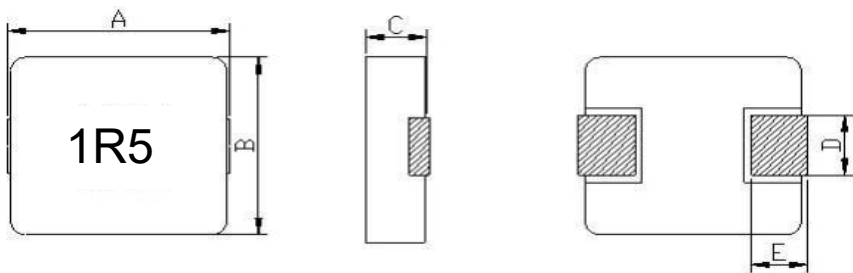
1.Features

- ①. High performance (Isat) realize by metal dust core.
- ②. Low profile: Thickness max.2.0~5.0mm.
- ③. Low loss and low resistance.
- ④. Capable of corresponding high frequency 1MHz~5MHz.
- ⑤ Ultra low buzz noise, due to composite construction.
- ⑥. The products contain no lead and also support lead-free soldering.

2.Applications area

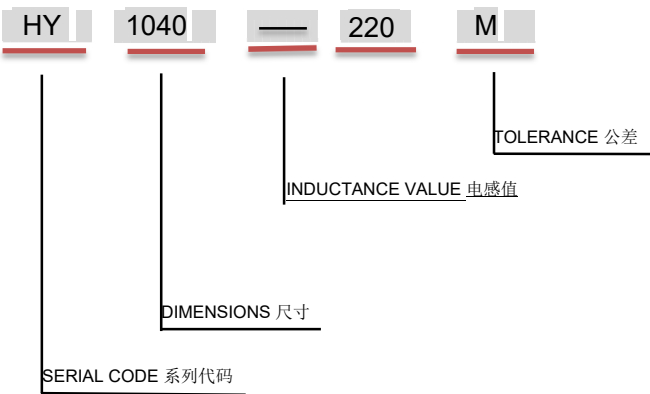
Ideally used in NB/Desktop/server/Graphic card, LCD TV/Projector, etc as DC-DC Converter.

3. Externl Dimensions (unit: mm)



UNIT: mm
A: 11.6MAX
B: 10.1±0.3
C: 4.0MAX
D: 2.5±0.5
E: 3.0±0.5

4. Product Code



Code 代码	Tolerance 公差
J	±5%
K	±10%
L	±15%
M	±20%
P	±25%
N	±30%

• 电感值Inductance Value
(1R0:1.0uH; 100: 10uH; 101:100uH)

5. Electrical Characteristics

HY1040 Series

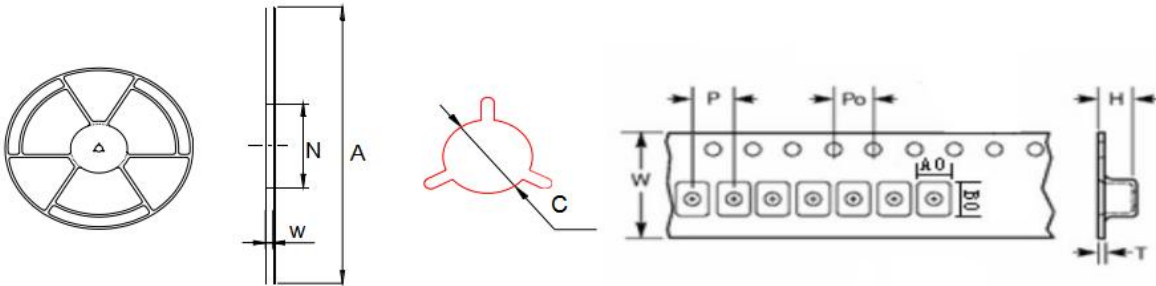
Electrical Characteristics						
H.Y PART NO	L0(uH) Inductance (uH) @ (0A)	Rdc (mΩ) @25°C		Heat Rating Current DC Amps. Idc (A)	Saturation Current DC Amps. Isat (A)	TEST FREQ (KHZ)
		Typ.	Max.			
HY1040-R36M	0.36±20%	1.05	1.20	34.00	42.00	100KHZ/1.0v
HY1040-R47M	0.47±20%	1.53	1.68	28.00	38.00	100KHZ/1.0v
HY1040-R56M	0.56±20%	1.60	1.80	27.00	32.00	100KHZ/1.0v
HY1040-R68M	0.68±20%	2.10	2.40	23.00	30.00	100KHZ/1.0v
HY1040-1R0M	1.00±20%	3.00	3.30	20.00	26.00	100KHZ/1.0v
HY1040-1R5M	1.50±20%	3.80	4.20	16.00	22.00	100KHZ/1.0v
HY1040-2R2M	2.20±20%	6.00	7.00	14.00	16.00	100KHZ/1.0v
HY1040-3R3M	3.30±20%	10.80	11.80	11.00	13.00	100KHZ/1.0v
HY1040-4R7M	4.70±20%	14.00	16.50	9.00	12.00	100KHZ/1.0v
HY1040-6R8M	6.80±20%	22.50	25.00	8.00	10.00	100KHZ/1.0v
HY1040-8R2M	8.20±20%	25.00	27.00	7.50	9.00	100KHZ/1.0v
HY1040-100M	10.0±20%	27.00	30.00	6.50	7.00	100KHZ/1.0v
HY1040-150M	15.0±20%	40.00	45.00	6.25	6.00	100KHZ/1.0v
HY1040-220M	22.0±20%	60.00	66.00	5.00	5.50	100KHZ/1.0v
HY1040-330M	33.0±20%	85.00	92.00	4.00	4.50	100KHZ/1.0v
HY1040-470M	47.0±20%	129.00	150.00	3.00	4.00	100KHZ/1.0v
HY1040-680M	68.0±20%	230.00	255.00	2.00	3.50	100KHZ/1.0v
HY1040-101M	100.0±20%	260.00	300.00	0.70	1.00	100KHZ/1.0v

Notes

- 1.All test data is reference to 25℃ ambient.
- 2.Idc: DC current (A) that will cause an approximate ΔT of 40℃
- 3. Isat : DC current (A) that will cause L0 to drop approximately 30%
- 4.Operating Temperature Range -55℃ to +125℃
- 5.The part temperature (ambient + temp rise) should not exceed 125 ℃ under worse case operating conditions. Circuit design, component. PWB trace size and thickness airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the den application.
- 6.The rated current as listde is either the saturation current or the heating current depending on which value is lower.

6.Minimum Packaging and storage

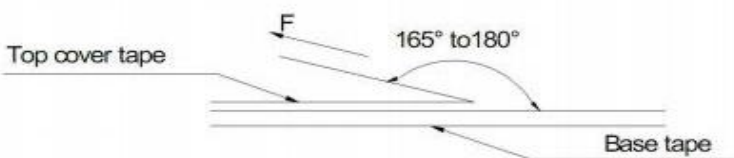
• 包装Packing

Tape Dimension											
											
Type	Reel Dimensions (mm)				Tape Dimensions (mm)						
	A	N	W	C	W	P	P0	A0	B0	H	T
HY0420	330 +2/-0	100 +2/-0	12.4 +2/-0	13.2 ±0.2	12±0.3	8±0.1	4±0.1	4.4±0.1	4.9±0.1	2.3±0.05	0.35±0.05
HY0530	330 +2/-0	100 +2/-0	12.4 +2/-0	13.2 ±0.2	12±0.3	8±0.1	4±0.1	5.4±0.1	5.9±0.1	3.3±0.05	0.35±0.05
HY0618	330 +2/-0	100 +2/-0	16.4 +2/-0	13.2 ±0.2	16±0.3	12±0.1	4±0.1	6.9±0.1	7.5±0.1	2.1±0.05	0.35±0.05
HY0624	330 +2/-0	100 +2/-0	16.4 +2/-0	13.2 ±0.2	16±0.3	12±0.1	4±0.1	6.9±0.1	7.5±0.1	2.7±0.05	0.35±0.05
HY0630	330 +2/-0	100 +2/-0	16.4 +2/-0	13.2 ±0.2	16±0.3	12±0.1	4±0.1	6.9±0.1	7.5±0.1	3.3±0.05	0.35±0.05
HY0650	330 +2/-0	100 +2/-0	16.4 +2/-0	13.2 ±0.2	16±0.3	12±0.1	4±0.1	6.9±0.1	7.5±0.1	5.2±0.1	0.4±0.05
HY1040	330 +2/-0	100 +2/-0	24.4 +2/-0	13.2 ±0.2	24±0.3	16±0.1	4±0.1	10.4±0.1	11.5±0.1	4.3±0.1	0.35±0.05
HY1250	330 +2/-0	100 +2/-0	24.4 +2/-0	13.2 ±0.2	24±0.3	16±0.1	4±0.1	13.2±0.1	14.4±0.1	5.3±0.1	0.4±0.05
HY1265	330 +2/-0	100 +2/-0	24.4 +2/-0	13.2 ±0.2	24±0.3	16±0.1	4±0.1	13.2±0.1	14.4±0.1	6.8±0.1	0.5±0.05

• Tape Carrier Packaging:

Type	Standard Quantity (pcs/reel)	Type	Standard Quantity (pcs/reel)
HY0420	3000	HY1250	400
HY5030	2000	HY1265	400
HY6030	1000		
HY1040	1000		

• Tearing Off Force

 The force for tearing off cover tape is 15 to 60 grams in the arrow direction under the following conditions			
Room Temp. ()°C	Room Humidity (%)	Room atm (hPa)	Tearing Speed mm/min
5~35	45~85	860~1060	300

• Application Notice

Storage Conditions To maintain the solderability of terminal electrodes:

1. Temperature and humidity conditions: Less than 30°C and 70% RH.
2. Recommended products should be used within 6 months from the time of delivery.
3. The packaging material should be kept where no chlorine or sulfur exists in the air.

Transportation

1. Products should be handled with care to avoid damage or contamination from perspiration and skin oils.
2. The use of tweezers or vacuum pick up is strongly recommended for individual components. Bulk handling should ensure that abrasion and mechanical shock are minimized.