

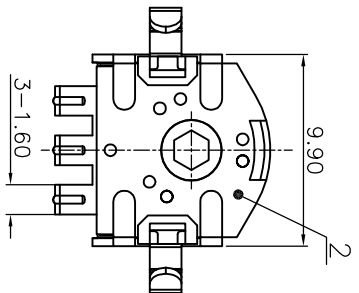
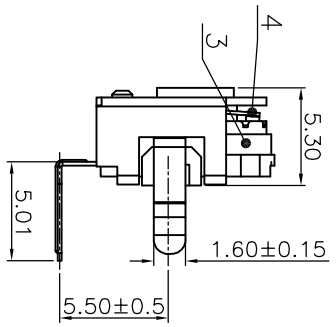
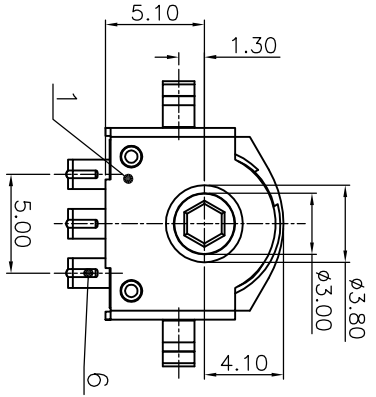


# 一、旋轉式編碼器系列技術規格書

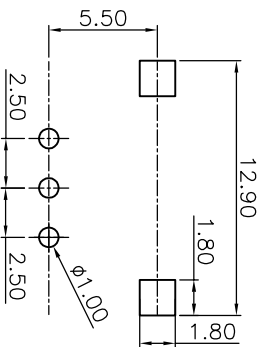
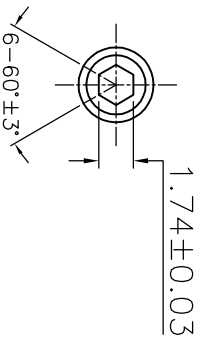
## Rotary Series Encoders Technic Specifications

1.機械性能 ( Mechanical Characteristics)				
序号	項目 Item		標準 Criteria	
1.1	全回轉角度 ( Total rotational angle)		360°	
1.2	定位點力矩(Detent torque)		1-3mN.m(10-30gf.cm)	
1.3	換子點數與位置 ( Detent Points)		24 detent Points each detent angle:15±3° (24點換子每點角度:15±3°)	
1.4	定位點數(Number of detent)		<input type="checkbox"/> 24 detents <input type="checkbox"/> 12 detents	
2.電氣性能 ( Electrical Characteristics )				
2.1	額定值 ( Rating)		5V DC,0.5mA	
2.2	抗電強度(Dielectric Voltage)		AC50V 60sNo dielectric breakdown shall occur无击穿现象发生。	
2.3	絕緣電阻 ( Insulation resistance)		50MΩ Min	
2.4	接觸電阻 ( Contact resistance)		5Ω Max.	
2.5	分解能力 ( Resolution)		12個脈沖/360° (12pulses/360 for each phase)	
3.耐久性能(Endurance Characteristics)				
3.1	可焊性(Solder Ability)		Soldering Temperature:250±5°C,焊接溫度:250±5°C.	
3.2	使用溫度範圍 ( Operating Temperature Range)			
3.3	耐焊接熱 ( Solder Heat Resistance)		Soldering Temperature&Immersing time, Dip Soldering ( 自動焊接 ) :230±5°C 4~6s.Manual Soldering(手動焊接 ) :270± 10°C3~4s	
3.4	回轉壽命 ( Rotational life)		100,000cycles min of operation shall be performed continuously at a rate of 3-30 cycles per minute with load as follow:10mA 10V DC. 在10mA 10V DC條件下，速度3至30次/分，在壽命試驗設備上連續轉換100，000次。 Contact resistance:10Ω Max. Insulation resistance:10MΩ Min, : 10MΩ Min. Operating force:10gf.cm.Min. : 10gf.cm.Min.	
批 准		審 核		設 計

### Mechanical Dimensions



### Shaft hole shape and dimension



PCB Layout (Pattern Side)  
(P.C. Bthickness t=1.6mm)

黑色转子, 孔径1.74  
偏轻扭力: 20-30gf.cm  
寿命: 20万次

Yahu DongGuan Yahu Electronic Co.,Ltd.		PRODUCT NAME		10mm Encoders	
2		MODEL NAME		EC101-D1-	
1	DATE	DESCRIPTION		DRAWN BY	
DIMENSION		TOLERANCE	SCALE	CHECKED BY	
l ≤ 10		±0.2	UNIT	DRAWN BY	
10 < l ≤ 30		±0.5	VER.	R & D	
30 < l ≤ 100		±1.0	DATE	2012.01.12	
				Lisa	

東莞市雅虎電子有限公司  
www.yahu-elect.com