



P. C. B MOUNTING HOLE DETAIL

EC16 SERIES ROTARY ENCODER
EC16 编码器

Electrical characteristics 电气特性	
Rating Power 额定功率	DC5V 10mA
Fluttering 振荡	T1,T3≤3ms
Sliding Noise(Bounce)滑动杂音	T2≤2ms
Dielectric Voltage 耐电压	For 1 minute or more AC 50V
Insulation resistance 绝缘阻抗	More than 10MΩ at DC 50V
Phase Difference 相位差	ΔT≥0.08T
Mechanical characteristics 机械特性	
Total Rotational Angle 旋转角度	360°
Rotational Torque 旋转力矩	30gf.cm~200 gf.cm
Number of click 段位数量	24 Detents(Angle:15°±3°) 12 Detents(Angle:30°±3°)
Push-Pull Strength 轴推拉力强度	5Kgf.cm Min for 10Sec
Switch Specifications 开关特性	
Maximum Ratings 额定电压	DC5V 10mA(1mA Min)
Contact resistance 接触阻抗	200mΩ Max
Travel of switch 开关移动量	0.5+0.4/-0.3 mm
Operating force of switch 开关动作力	500±300gf
Environmental characteristics	
Rotational Life 旋转寿命	30,000 cycles
Switch Life 开关寿命	20,000 cycles

C16 轴套规格



输出信号

轴套旋转方向 Shaft rotational direction	信号 Signal	正向 Direction	反向 Reverse
顺时针方向 C.C.W.	A(A'端子) A(Terminal A')	00V 00V 00V	00V 00V 00V
逆时针方向 C.C.W.	B(B'端子) B(Terminal B')	00V 00V 00V	00V 00V 00V

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TOLERANCE UNLESS OTHERWISE STATED :
Up to 5 ±0.2
Above 5 ~ 15 ±0.3
Above 15 ~ 30 ±0.4
Above 30 ~ 50 ±0.5
Angle ±0.3

3RD. ANGEL'S



UNITS MM

DRAWN BY: Jack Lu
DATE: 07/23/13
CHECKED BY: Jacky Chen
DATE: 07/23/13
APPROVED BY: Tony Kao
DATE: 07/23/13

MAT'L	TITLE	EC ENCODING SWITCH
FINISH	MODLE	EC编码开关系列
SCALE 1 : 1	DWG NO.	KSD-EC-1602
SHEET NO. 1 of 1	PART NO.	
	SIZE	A4
	VER	R2

ITEM NO.	DESCRIPTION	DRAWN	DATE
2	公差及料號更新	Jack	072313
1	圖面更新	Frank Wu	021012