

驅動器介面線路設計與樣品雛形試製

1.交付項目與要求

(1) 設計電路圖, 3D 模型, 元件表, 布局圖

設計階段須提供階段結果, 以配合機構檢查比對

(2) 製作雛型樣品: 公板 18 個, 母板 18 個

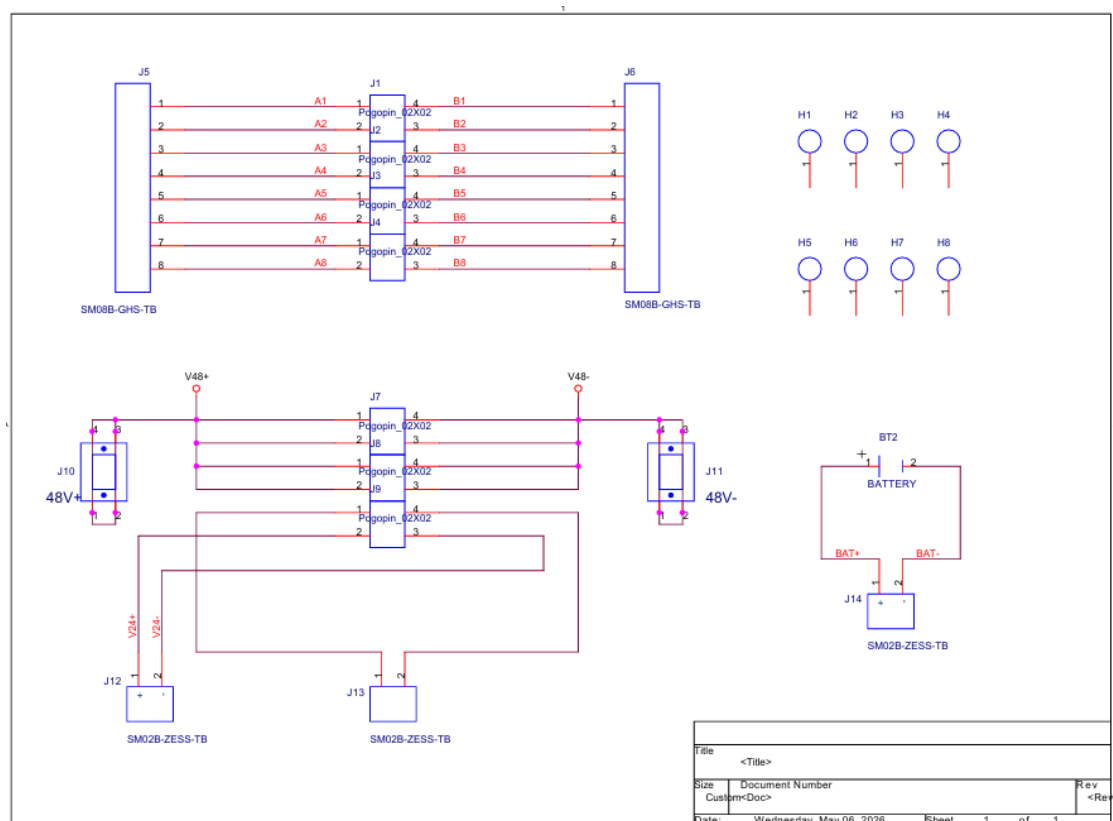
包含: PCB 印製與檢測, 元件訂製及取得, 元件焊接與檢查

(3) 特殊要求:

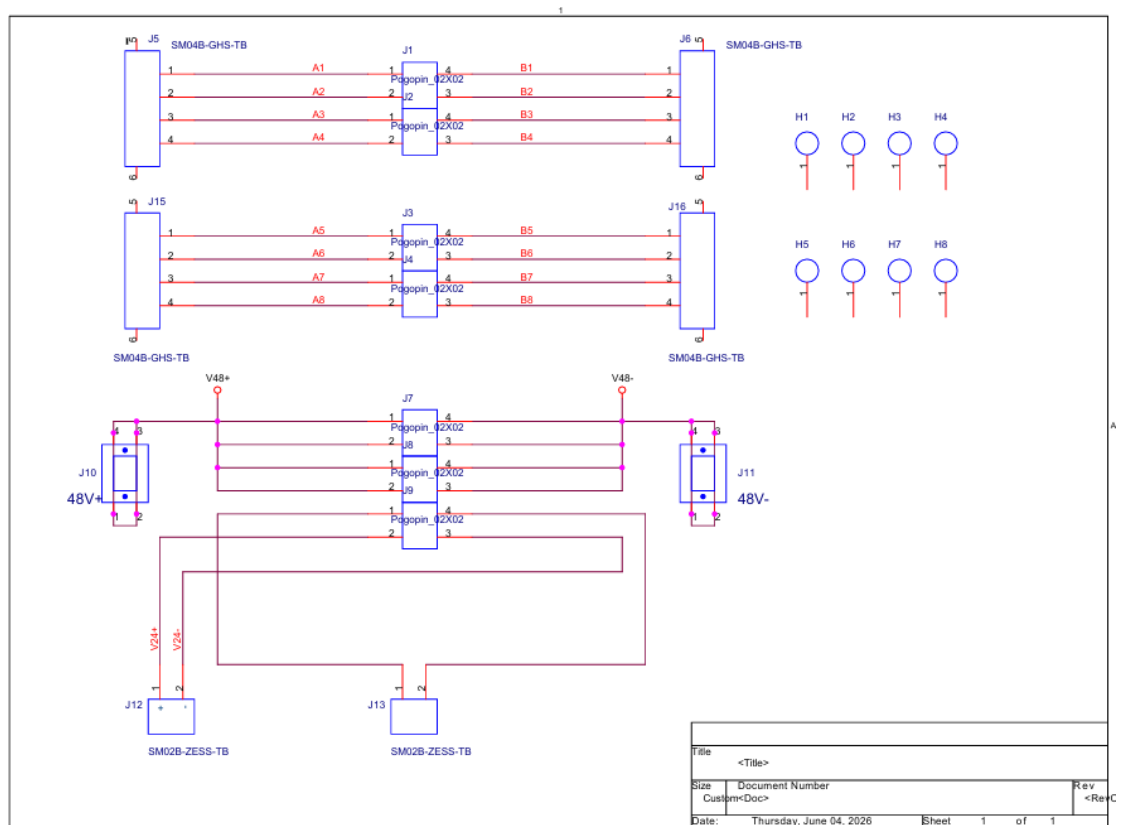
配合測試需要更動元件時, 廠商有能力可搭配進行調整

2. 線路概圖說明

公板(含電池)

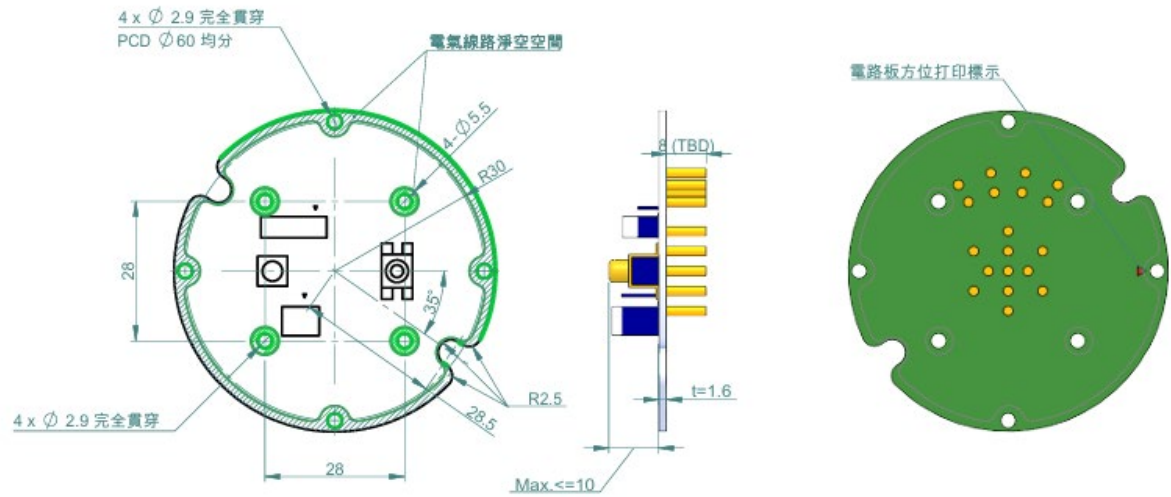


母板

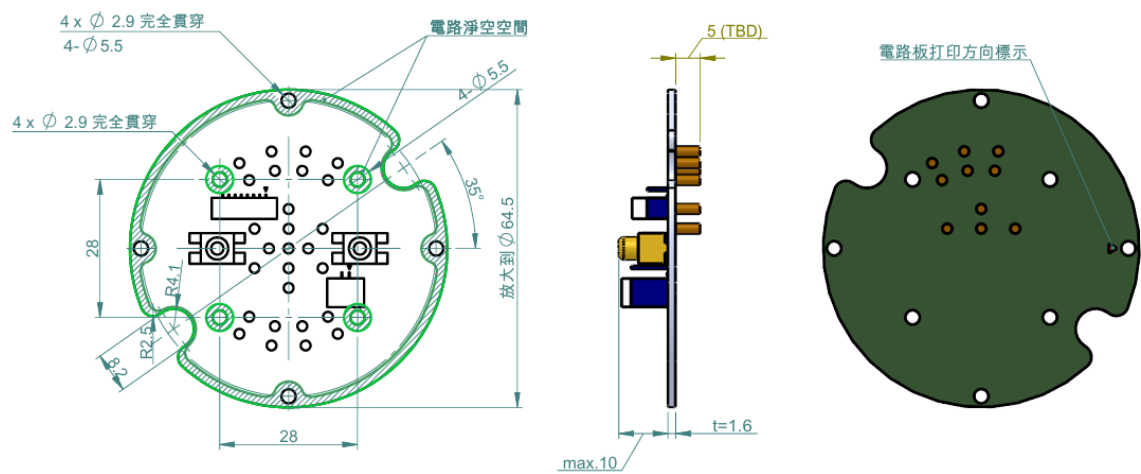


3. 機構概圖說明

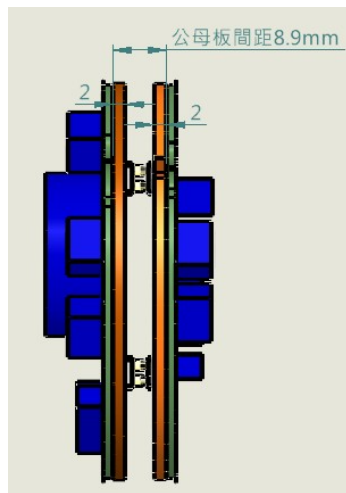
母板(pogopin 公針,尺寸外型限制,元件為參考圖，將依設計更新)



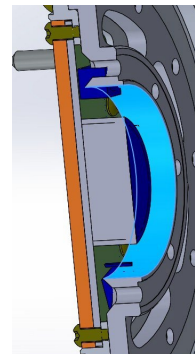
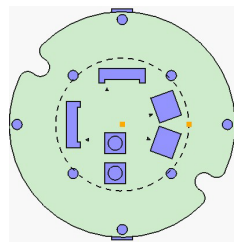
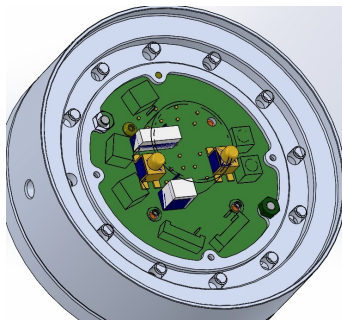
公板(pogopin 母座,尺寸外型限制,元件為參考，將依設計更新)



公母板配合 間距要求



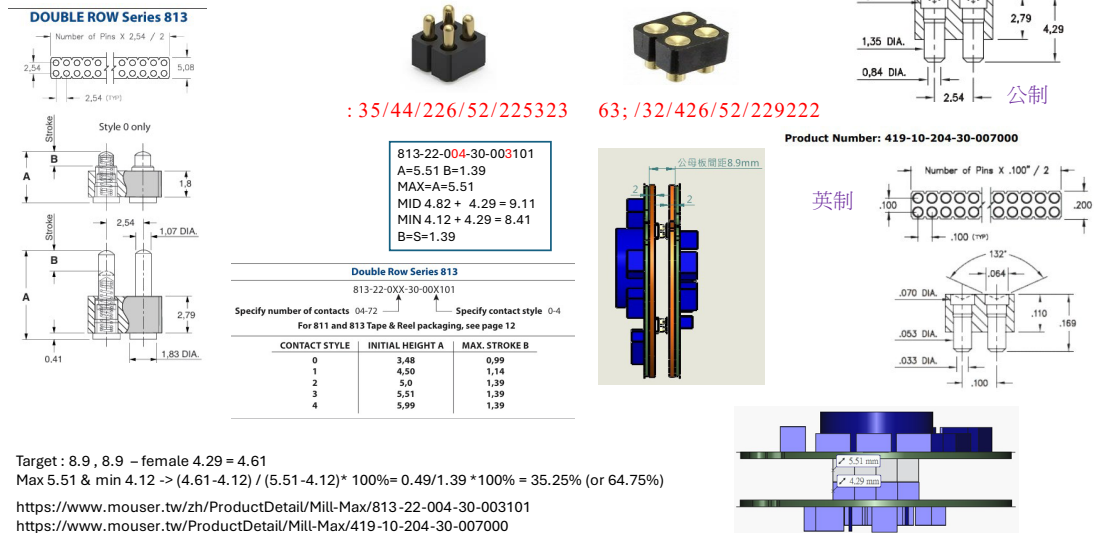
母板元件配置



4. 元件參考方案

(1) pogopin 配置試算

Pogopin 4p(2x2) SMD公針 & 母座



(2) 電池

電池 LIR2450: 3.6V & Box2450



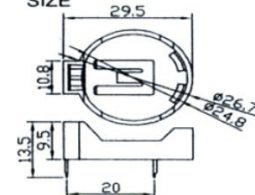
LIR2450-VBY2-CN

<https://ok.100y.com.tw/Goods/121357>

電池型號：LIR2450 電池電壓：3.6V可充電鋰電池 電池尺寸：
φ24*H5.0mm 電池容量：120mah 工作溫度：-10~60°C



FOR CR2450 BATTERY
SIZE

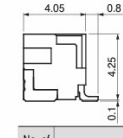
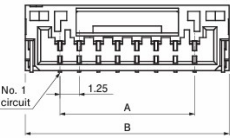


<https://ok.100y.com.tw/Goods/39894>
CR2450 DIP電池座 ZH863

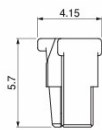
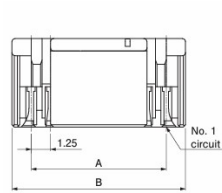
(3) 網路 I/O 接頭

更新 ECAT & GPIO BM04B-GHS-TB

Side entry type

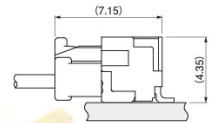
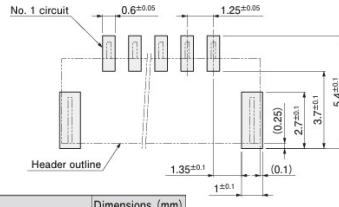


No. of circuits	Model No.		Dimensions (mm)	
	Top entry type	Side entry type	A	B
2	BM02B-GHS-TBT	SM02B-GHS-TB	1.25	5.75
3	BM03B-GHS-TBT	SM03B-GHS-TB	2.50	7.00
4	BM04B-GHS-TBT	SM04B-GHS-TB	3.75	8.25



No. of circuits	Model No.	Dimensions (mm)	
		A	B
2	GHR-02V-S	1.25	3.75
3	GHR-03V-S	2.50	5.00
4	GHR-04V-S	3.75	6.25

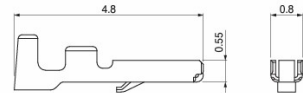
Side entry type



SM04B-GHS-TB #121676



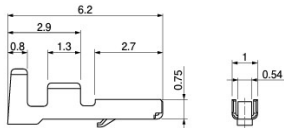
GHR-04V-S #85484



Model No.	Applicable wire range	
	Conductor size AWG (mm ²)	Insulation O.D. (mm)
SSHL-002T-P0.2	#30 to #26 (0.05 to 0.13)	0.76 to 1.0

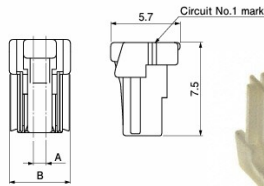
(4) 24V 電源接頭

V24+/- & Bat+/- ZER-02V-S



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty/reel
	mm ²	AWG #		
SZE-002T-P0.3	0.08 to 0.21	28 to 24	0.76 to 1.2	16,000

<2 circuits>

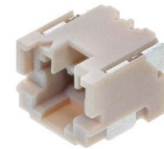


No. of circuits	Model No.	Dimensions (mm)		Q'ty/reel
		A	B	
2	ZER-02V-S	1.5	5.0	6,000

ZER-02V-S

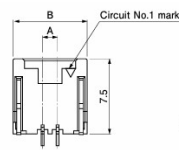
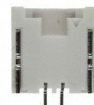


SM02B-ZESS-TB



Side entry type

<2 circuits>

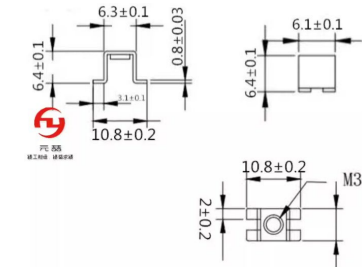


Side entry type

No. of circuits	Model No.	Dimensions (mm)		Q'ty/reel
		A	B	
2	SM02B-ZESS-TB	1.5	7.5	1,000

(5) 48V 電源接頭

V48+ & V48-元喆-035 M3端子+圓墊螺絲+接線鼻



型号: 元喆-035
材质: H62黄铜/T2紫铜
料厚: 0.6和0.8mm
表面: 镀锡【可定做镀锌】
螺孔: M3
封装: 平贴式mm
应用: PCB电路板等
用途: PCB板上之焊接电线端子, 美观、牢固、耐大电流, 配合螺丝固定端子。



方垫螺丝



圆垫螺丝



接線鼻: 采用黄铜材质, 表面镀锡, 导电性好