

## Specifications:

### Material And Finish:

Insulator:LCP UL94V-0 Color:BLACK  
Contact:High Conductivity Copper Alloy  
Plated:See Ordering Informtaion

### Rating:

Current Rating:  
Signal Contact:4.5A AC,DC  
Power Contact:130A Max  
Voltage Rating:  
Signal Module:125V AC,DC  
Power module:125AC,125DC  
Operating Temperature Range:-40°~+105°C

### Electrical:

Contact resistance:  
Signal Contact 10m Ohm Max  
Power Contact 0.38m Ohm Max

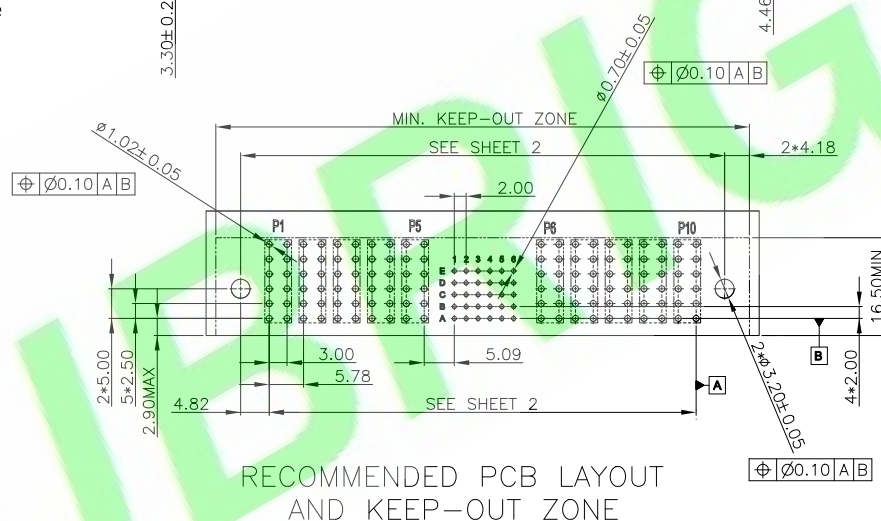
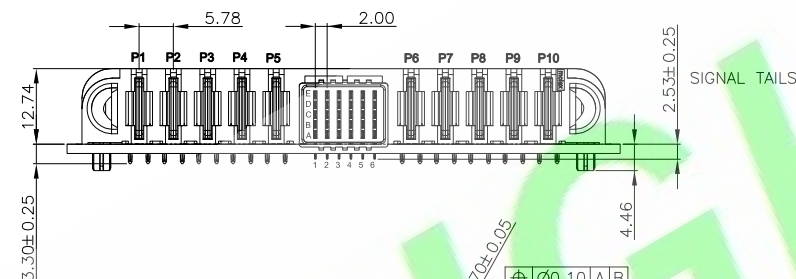
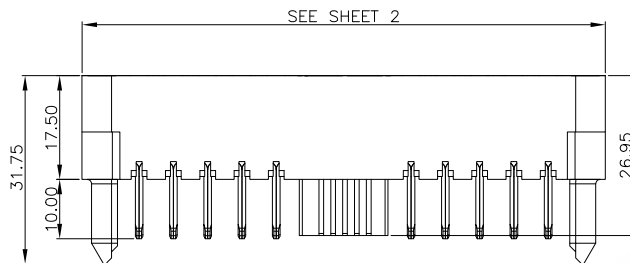
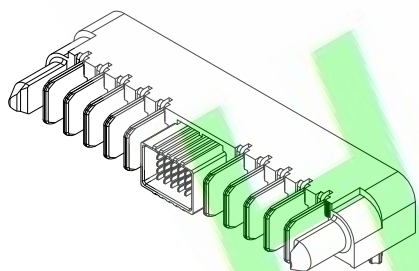
Insulator resistance:5000M ohm min  
Withstanding Voltage:1500V AC/Minute

### Ordering Information

PM578020R-XXMY-03-C

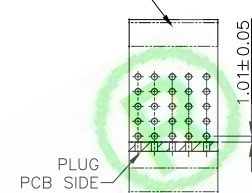
1 2 3 4 5 6

- 1: Series No.
- 2: R/R/A Type
- 3: No. of Positions
- 4: M:Male
- 5: Y:30u"Gold on Contact;  
Selective Tin on tail
- 6: C:In Tray



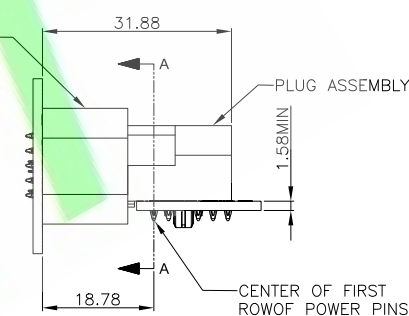
RECOMMENDED PCB LAYOUT  
AND KEEP-OUT ZONE

VERTICAL RECEPTACLE PCB SIDE



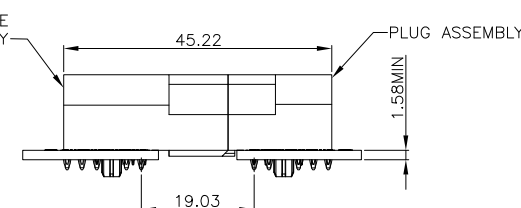
SECTION A-A  
(POWER CKTS ARE ALIGNED)

VERTICAL RECEPTACLE  
ASSEMBLY



PLUG MATED TO VERTICAL RECEPTACLE  
MATED PROFILE

R/A RECEPTACLE  
ASSEMBLY

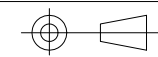


PLUG MATED TO R/A RECEPTACLE  
MATED PROFILE

|                 |                    |               |                                                                          |
|-----------------|--------------------|---------------|--------------------------------------------------------------------------|
| DR.BY.:<br>xiao | GENERAL TOLERANCE: |               | PART NO : PM578020R-XXMY-03-C                                            |
| CHKD.:<br>Hu.ch | LINEAR             | ANGLES        | DWG. NO.:                                                                |
| APPD.:<br>Billy | x.: ±0.40          | x': ±5.0°     | TITLE :<br>Power Pin and Singnal Pin R/A Type<br>assy-Ten60 Power Family |
| ECN. NO.        | x.x: ±0.30         | x.x': ±3.0°   | DATE: 07-Dec-2024                                                        |
|                 | x.xx: ±0.25        | x.xx': ±2.0°  |                                                                          |
|                 | x.xxx: ±0.10       | x.xxx': ±1.0° |                                                                          |

**HJBRIGHT** 東莞市華晶電子有限公司  
BRIGHT-E ELECTRONIC TECHNOLOGY LIMITED

SHEET: 1/1  
SCALE: 1:1  
UNIT: mm



THIRD ANGLE PROJECTION

A4

|              |             |                            |         |                                    |  |                                                                 |  |         |  |  |  |                    |  |
|--------------|-------------|----------------------------|---------|------------------------------------|--|-----------------------------------------------------------------|--|---------|--|--|--|--------------------|--|
|              |             |                            |         |                                    |  |                                                                 |  |         |  |  |  | RoHS Compliant     |  |
| TYP A 1      |             |                            |         | TYP A 2                            |  |                                                                 |  | TYP A 3 |  |  |  | Automobile Product |  |
|              |             |                            |         |                                    |  |                                                                 |  |         |  |  |  |                    |  |
| TYP A 4      |             |                            |         | TYP A 5                            |  |                                                                 |  | TYP A 6 |  |  |  |                    |  |
|              |             |                            |         |                                    |  |                                                                 |  |         |  |  |  |                    |  |
| TYP A 7      |             |                            |         | TYP A 8                            |  |                                                                 |  | TYP A 9 |  |  |  |                    |  |
|              |             |                            |         |                                    |  |                                                                 |  |         |  |  |  |                    |  |
| TYP A 10     |             |                            |         |                                    |  |                                                                 |  |         |  |  |  |                    |  |
|              |             |                            |         |                                    |  |                                                                 |  |         |  |  |  |                    |  |
| DR.BY.: xiao |             | GENERAL TOLERANCE:         |         | PART NO : PM578020R-XXMY-03-C      |  | HJBRIGHT® 東莞市華晶電子有限公司<br>BRIGHT-E ELECTRONIC TECHNOLOGY LIMITED |  |         |  |  |  |                    |  |
| CHKD.: Hu.ch |             | LINEAR                     |         | DWG. NO.:                          |  |                                                                 |  |         |  |  |  |                    |  |
| APPD.: Billy |             | ANGLES                     |         | TITLE :                            |  | SHEET: 1/1                                                      |  |         |  |  |  |                    |  |
|              |             | x.: ±0.40 x': ±5.0°        |         | Power Pin and Singnal Pin R/A Type |  | SCALE: 1:1                                                      |  |         |  |  |  |                    |  |
|              |             | x.x: ±0.30 x.X': ±3.0°     |         | assy-Ten60 Power Family            |  | UNIT: mm                                                        |  |         |  |  |  |                    |  |
|              |             | x.xx: ±0.25 x.XX': ±2.0°   |         | DATE: 07-Dec-2024                  |  | THIRD ANGLE PROJECTION                                          |  |         |  |  |  |                    |  |
|              |             | x.xxx: ±0.10 x.XXX': ±1.0° |         |                                    |  | A4                                                              |  |         |  |  |  |                    |  |
| 1X           | ORIGINAL    | xiao                       |         |                                    |  |                                                                 |  |         |  |  |  |                    |  |
| REV.         | DESCRIPTION | DR.BY                      | ECN. NO |                                    |  |                                                                 |  |         |  |  |  |                    |  |