

Product Change Notice (PCN)

Date: **03/22/2024**

PCN Number: **PCN-0450722R-01**

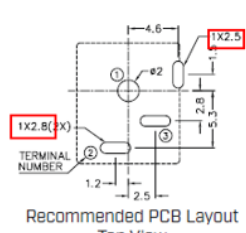
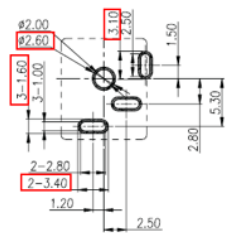
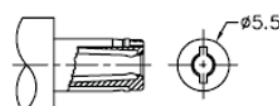
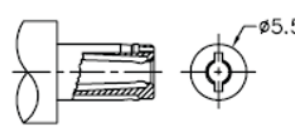
To Our Customers:

We appreciate your use of our products. Our commitment in maintaining and improving processes is demonstrated by plans to enhance our product quality, reliability, and manufacturability. The purpose of this notice is to inform you of a product change.

Product(s) Affected: **PJ-090BH**

Reason(s) for Change: **Manufacturing Improvement processes**

Description of Change: **Product re-engineered for improved manufacturability and production yield. See image below for product changes. Cosmetic differences may be visible and not affect the form fit and function of the product.**

| PREVIOUS CUI DEVICES DETAIL / IMAGE | NEW CUI DEVICES DETAIL / IMAGE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---------------|---------|------------|-------|--------|------------|-------|--------|------------|--------------|--------|------------|-------|--------|----------|-------|--------|----------|-----------------|--|-------|-----------|--|-----------|-------|--|--|-------------|----------|---------------|------------|--------|--------|------------|--------|--------|------------|--------------|--------|------------|-------|--------|----------|-------|--------|----------|-----------------|--|-------|-----------|--|-----------|-----------------|-------|
|  <p>Recommended PCB Layout Top View</p> |  <p>Recommended PCB Layout Top View</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th></th> <th>MATERIAL</th> <th>PLATING</th> </tr> </thead> <tbody> <tr> <td>center pin</td> <td>brass</td> <td>silver</td> </tr> <tr> <td>terminal 1</td> <td>brass</td> <td>silver</td> </tr> <tr> <td>terminal 2</td> <td>copper alloy</td> <td>silver</td> </tr> <tr> <td>terminal 3</td> <td>brass</td> <td>silver</td> </tr> <tr> <td>shield A</td> <td>brass</td> <td>nickel</td> </tr> <tr> <td>shield B</td> <td>stainless steel</td> <td></td> </tr> <tr> <td>mylar</td> <td>polyimide</td> <td></td> </tr> <tr> <td>insulator</td> <td>PA10T</td> <td></td> </tr> </tbody> </table> | | MATERIAL | PLATING | center pin | brass | silver | terminal 1 | brass | silver | terminal 2 | copper alloy | silver | terminal 3 | brass | silver | shield A | brass | nickel | shield B | stainless steel | | mylar | polyimide | | insulator | PA10T | | <table border="1"> <thead> <tr> <th>DESCRIPTION</th> <th>MATERIAL</th> <th>PLATING/COLOR</th> </tr> </thead> <tbody> <tr> <td>center pin</td> <td>copper</td> <td>silver</td> </tr> <tr> <td>terminal 1</td> <td>copper</td> <td>silver</td> </tr> <tr> <td>terminal 2</td> <td>copper alloy</td> <td>silver</td> </tr> <tr> <td>terminal 3</td> <td>brass</td> <td>silver</td> </tr> <tr> <td>shield A</td> <td>brass</td> <td>nickel</td> </tr> <tr> <td>shield B</td> <td>stainless steel</td> <td></td> </tr> <tr> <td>mylar</td> <td>polyimide</td> <td></td> </tr> <tr> <td>insulator</td> <td>PA10T (UL94V-0)</td> <td>black</td> </tr> </tbody> </table> | DESCRIPTION | MATERIAL | PLATING/COLOR | center pin | copper | silver | terminal 1 | copper | silver | terminal 2 | copper alloy | silver | terminal 3 | brass | silver | shield A | brass | nickel | shield B | stainless steel | | mylar | polyimide | | insulator | PA10T (UL94V-0) | black |
| | MATERIAL | PLATING | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| center pin | brass | silver | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| terminal 1 | brass | silver | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| terminal 2 | copper alloy | silver | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| terminal 3 | brass | silver | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| shield A | brass | nickel | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| shield B | stainless steel | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| mylar | polyimide | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| insulator | PA10T | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DESCRIPTION | MATERIAL | PLATING/COLOR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| center pin | copper | silver | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| terminal 1 | copper | silver | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| terminal 2 | copper alloy | silver | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| terminal 3 | brass | silver | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| shield A | brass | nickel | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| shield B | stainless steel | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| mylar | polyimide | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| insulator | PA10T (UL94V-0) | black | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  <p>MATING PLUG Jack Insertion Depth 9.45 mm</p> |  <p>MATING PLUG Jack Insertion Depth 9.95 mm</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

F-723-001

Revision: A

PREVIOUS CUI DEVICES DETAIL / IMAGE

SPECIFICATIONS

| parameter | conditions/description | min | typ | max | units |
|----------------------------|---|-----|-----|-------|--------|
| rated input voltage | | | 24 | | Vdc |
| rated input current | | | 5.0 | | A |
| contact resistance | between terminal and mating plug between terminal in a closed circuit | | 30 | 100 | mΩ |
| insulation resistance | at 500 Vdc between adjacent contacts | 100 | | | MΩ |
| voltage withstand | for 1 minute, 0.5 mA between adjacent contacts | | 500 | | Vac |
| insertion/withdrawal force | | 0.3 | | 3 | kg |
| operating temperature | | -25 | | 85 | °C |
| life | at a rate of 24 cycles/minute | | | 5,000 | cycles |
| flammability rating | UL94V-0 | | | | |
| RoHS | yes | | | | |

SOLDERABILITY

| parameter | conditions/description | min | typ | max | units |
|--------------------|---|-----|-----|-----|-------|
| reel storage | at relative humidity $\leq 80\%$ | | 40 | | °C |
| reflow soldering | see reflow profile | 255 | 260 | 265 | °C |
| drying conditioner | parts in reel bake at 40°C ±5°C for 72 hours parts removed from reel bake at 40°C ±5°C for 10 hours | | | | |

Note: 1. Heat reflow solder within 70 hours from opening vacuum desiccating at a temperature $\leq 50^{\circ}\text{C}$ @ 90% relative humidity $\leq 65\%$. 2. When ascending flow rate by 75% hours.

NEW CUI DEVICES DETAIL / IMAGE

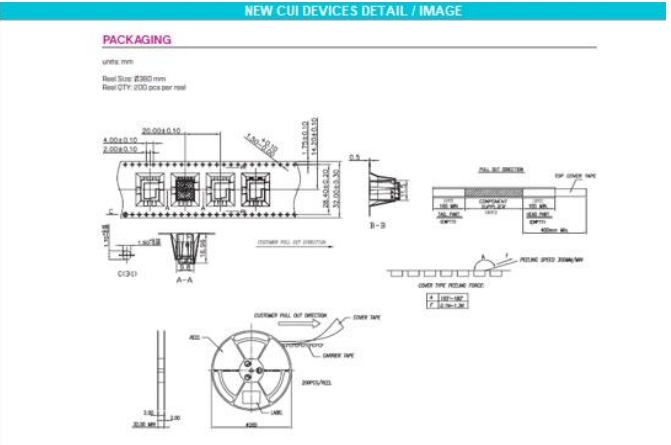
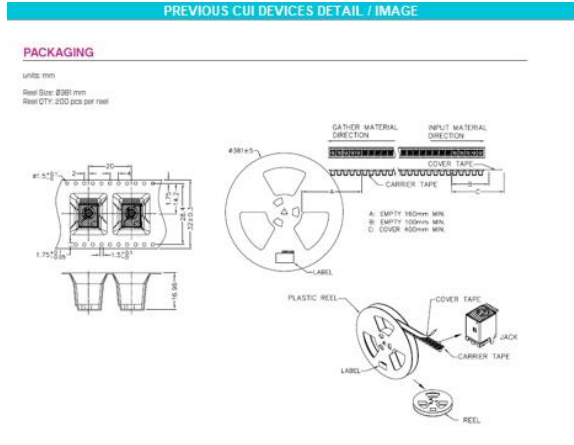
SPECIFICATIONS

| parameter | conditions/description | min | typ | max | units |
|----------------------------|------------------------|-----|-----|-------|--------|
| rated input voltage | | | 24 | | Vdc |
| rated input current | | | 5.0 | | A |
| contact resistance | | | 30 | | mΩ |
| insulation resistance | at 500 Vdc | 100 | | | MΩ |
| voltage withstand | for 1 minute | | 500 | | Vac |
| insertion/withdrawal force | | 0.3 | | 3 | kg |
| operating temperature | | -25 | | 85 | °C |
| life | | | | 5,000 | cycles |
| flammability rating | UL94V-0 | | | | |
| RoHS | yes | | | | |

SOLDERABILITY

| parameter | conditions/description | min | typ | max | units |
|------------------|---|-----|-----|-----|-------|
| wave soldering | dipped in solder pot for 5 ± 0.5 seconds | 255 | 260 | 265 | °C |
| reel storage | -5-25°C, 25-80% humidity reel opened; use within 1 month reel unopened; use within 8 months | | | | |
| reflow soldering | see reflow profile | 260 | 265 | 270 | °C |

Note: 1. CUI Devices recommends usage of the product within 2 hours after T80 is opened. After 8 hours, CUI Devices recommends drying the parts prior to use.





Affected Date Code: **03/22/2024**

Product Availability: *Pertaining to market availability*

PCN Approval:

Operations/Quality

A handwritten signature in black ink, appearing to read "Rosey O'Brien", written over a horizontal line.

Product Management

A handwritten signature in black ink, written over a horizontal line. The signature is partially obscured by a light gray rectangular box.