

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

Recommended PCB Layout
Top View

	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	polymide	
insulator	PA10T	

NEW CUI DEVICES DETAIL / IMAGE

Recommended PCB Layout
Top View

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	polymide	
insulator	PA10T (UL94V-0)	black

MATING PLUG
Jack Insertion Depth: 9.45 mm

MATING PLUG
Jack Insertion Depth: 9.95 mm

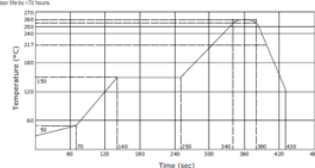
F-723-001

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 65	mΩ 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		0.9		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
reflow storage	at relative humidity <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				

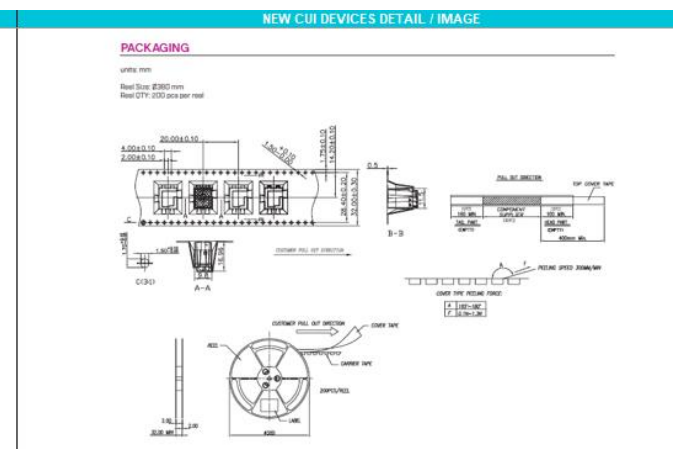
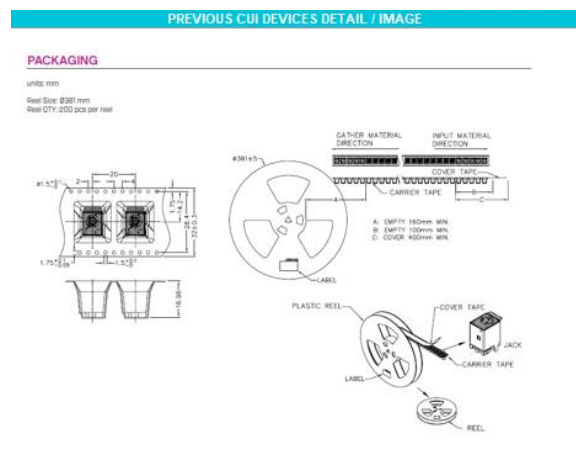
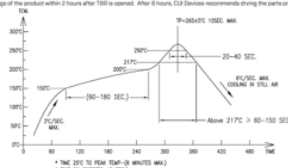
Note: 1. Max reflow solder within 70 hours from opening vacuum packaging at a temperature <20°C ±5 relative humidity <60%.
2. When exceeding floor life by 72 hours.



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		0.9		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
reflow 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 Martin", is positioned above a horizontal line.

Product Management

A handwritten signature in black ink is positioned above a horizontal line. The signature is partially obscured by a light gray rectangular box.