Product Change Notice (PCN)

Date: 03/22/2024

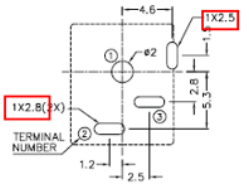
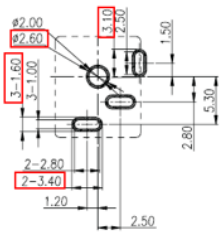
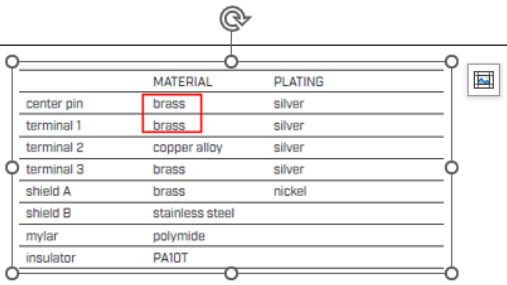
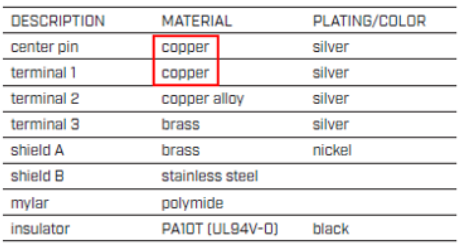
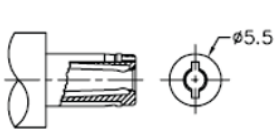
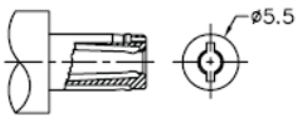
PCN Number: PCN-0450722R-01

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
 Recommended PCB Layout Top View	 Recommended PCB Layout Top View
	
 MATING PLUG Jack Insertion Depth: 9.45 mm	 MATING PLUG Jack Insertion Depth: 9.95 mm

	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	

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

F-723-001 Revision: A

PREVIOUS CUI DEVICES DETAIL / IMAGE	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[1]	between terminal and mating plug between terminal in a closed circuit			20 20	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		0.3		3	kg
operating temperature		-25		85	°C
life	at a rate of 24 cycles/minute		5,000		cycles
flammability rating	UL94V-0				
RoHS	yes				

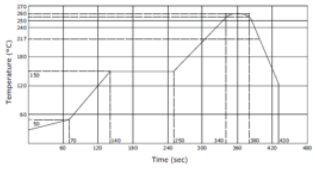
SPECIFICATIONS

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
reel storage	at relative humidity <80%			40	°C
reflow soldering[1]	see reflow profile	255	260	265	°C
drying conditions[2]	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				

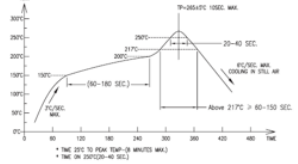
Note: 1. Must reflow solder within 72 hours from opening vacuum packaging at a temperature <30°C & relative humidity <60%.
2. When exceeding floor life by <72 hours.



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	-5~35°C, 25~80% humidity reel opened: use within 1 month reel unopened: use within 6 months				
reflow soldering	see reflow profile	260	265	270	°C

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

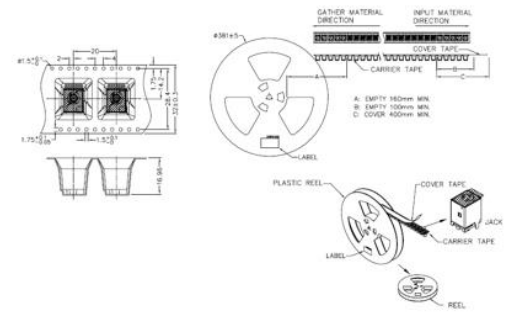


PREVIOUS CUI DEVICES DETAIL / IMAGE	NEW CUI DEVICES DETAIL / IMAGE

PACKAGING

units: mm

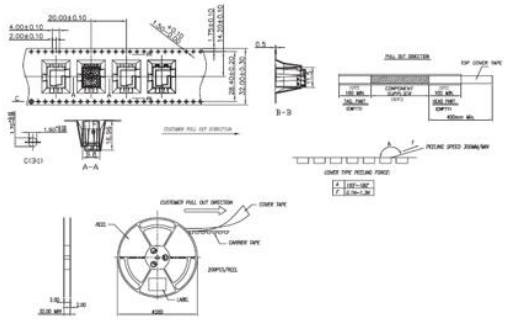
Reel Size: Ø381 mm
Reel QTY: 200 pcs per reel



PACKAGING

units: mm

Reel Size: Ø360 mm
Reel QTY: 200 pcs per reel



6405 SW Rosewood St, Ste C • Lake Oswego, OR 97035 • cuidevices.com • 877.323.3576

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

Product Availability: *Pertaining to market availability*

PCN Approval:

Operations/Quality

Product Management

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