

Product Change Notice (PCN)

Date: 09/25/2024

PCN Number: PCN-0456193R-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-083AH, PJ-083BH & PJ-083H (example below shows PJ-083AH. Only the center pin diameter differs in the series)

Reason(s) for Change: *Manufacturing process improvements*

Description of Change: *New Factory Location. Product re-engineered for improved manufacturability and production yield. See image below for reference and check the Same Sky website for updated drawing after 10/20/2024. Cosmetic differences may be visible but will not affect the form fit and function of the product.*

PREVIOUS SAME SKY DETAIL / IMAGE	NEW SAME SKY DETAIL / IMAGE
<p style="text-align: center;">Recommended PCB Layout Top View</p>	<p style="text-align: center;">Recommended PCB Layout Top View</p>

F-723-001

Revision: A

PREVIOUS SAME SKY DETAIL / IMAGE			NEW SAME SKY DETAIL / IMAGE		
DESCRIPTION	MATERIAL	PLATING/COLOR	DESCRIPTION	MATERIAL	PLATING/COLOR
center pin	copper	nickel	center pin	copper	nickel
terminal 1	brass	silver	terminal 1	brass	silver over nickel
terminal 2	brass	silver	terminal 2	copper alloy	silver over nickel
terminal 3	brass	silver	terminal 3	brass	silver over nickel
shield A	brass	nickel	shield A	brass	---
shield B	stainless steel		shield B	stainless steel	---
insulator	PA10T (UL94V-D)		insulator	PA10T (UL94V-D)	black

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		50		mΩ
insulation resistance	at 500 Vdc	100			MΩ
voltage withstand	for 1 minute			500	Vac
insertion/withdrawal force		0.5		2	kg
operating temperature	at a rate of 10-20 cycles	-25		85	°C
life	at a rate of 10-20 cycles		5,000		cycles
flammability rating	UL94V-D				
RoHS	yes				

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		50		mΩ
insulation resistance	at 500 Vdc	100			MΩ
voltage withstand	for 1 minute			500	Vac
insertion/withdrawal force		0.3		3	kg
operating temperature	at a rate of 10-20 cycles	-25		85	°C
life	at a rate of 10-20 cycles		5,000		cycles
flammability rating	UL94V-D				
RoHS	yes				

PREVIOUS SAME SKY DETAIL / IMAGE		NEW SAME SKY DETAIL / IMAGE																																																	
<p>SOLDERABILITY</p> <table border="1"> <thead> <tr> <th>parameter</th> <th>conditions/description</th> <th>min</th> <th>typ</th> <th>max</th> <th>units</th> </tr> </thead> <tbody> <tr> <td>reel storage</td> <td>10-30°C, <70% humidity</td> <td></td> <td></td> <td></td> <td>°C</td> </tr> <tr> <td>reflow soldering</td> <td>see reflow profile</td> <td>255</td> <td>260</td> <td></td> <td>°C</td> </tr> <tr> <td>drying conditions¹</td> <td>parts in reel bake at 110°C for 4 hours parts removed from reel: bake at 110°C for 4 hours</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>Note: 1. Same time requirements to solder within 12 hours from opening vacuum packaging at a temperature <30°C & relative humidity <60%. 2. When soldering first 96 by <240 hours.</p>		parameter	conditions/description	min	typ	max	units	reel storage	10-30°C, <70% humidity				°C	reflow soldering	see reflow profile	255	260		°C	drying conditions ¹	parts in reel bake at 110°C for 4 hours parts removed from reel: bake at 110°C for 4 hours					<p>SOLDERABILITY</p> <table border="1"> <thead> <tr> <th>parameter</th> <th>conditions/description</th> <th>min</th> <th>typ</th> <th>max</th> <th>units</th> </tr> </thead> <tbody> <tr> <td>reel storage</td> <td>5-35°C, <75% humidity</td> <td></td> <td></td> <td></td> <td>°C</td> </tr> <tr> <td>reflow soldering</td> <td>see reflow profile</td> <td></td> <td></td> <td>260</td> <td>°C</td> </tr> <tr> <td>drying conditions</td> <td>bake at 120°C for 4 hours</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		parameter	conditions/description	min	typ	max	units	reel storage	5-35°C, <75% humidity				°C	reflow soldering	see reflow profile			260	°C	drying conditions	bake at 120°C for 4 hours				
parameter	conditions/description	min	typ	max	units																																														
reel storage	10-30°C, <70% humidity				°C																																														
reflow soldering	see reflow profile	255	260		°C																																														
drying conditions ¹	parts in reel bake at 110°C for 4 hours parts removed from reel: bake at 110°C for 4 hours																																																		
parameter	conditions/description	min	typ	max	units																																														
reel storage	5-35°C, <75% humidity				°C																																														
reflow soldering	see reflow profile			260	°C																																														
drying conditions	bake at 120°C for 4 hours																																																		
<p>PACKAGING</p> <p>units: mm Reel Size: 8330 mm Reel QTY: 450 pcs per reel</p>		<p>PACKAGING</p> <p>units: mm Reel Size: 8330 mm Reel QTY: 350 pcs per reel</p>																																																	



Affected Date Code: All orders placed after **10/20/2024**

Product Availability: *Pertaining to market availability*

PCN Approval:

Operations/Quality



Product Management

