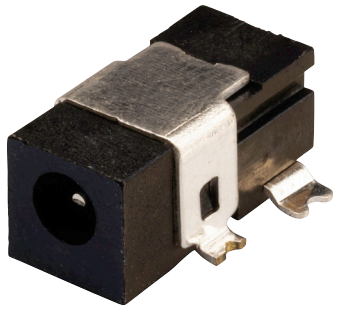
CUI Devices is now Same Sky! Learn More

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MODEL: PJ1-023-SMT-TR | DESCRIPTION: DC POWER JACK

FEATURES

- 0.65 mm center pin
- 2.5 A rating
- right angle orientation
- surface mount (SMT)
- shielded
- internal switch



RoHS

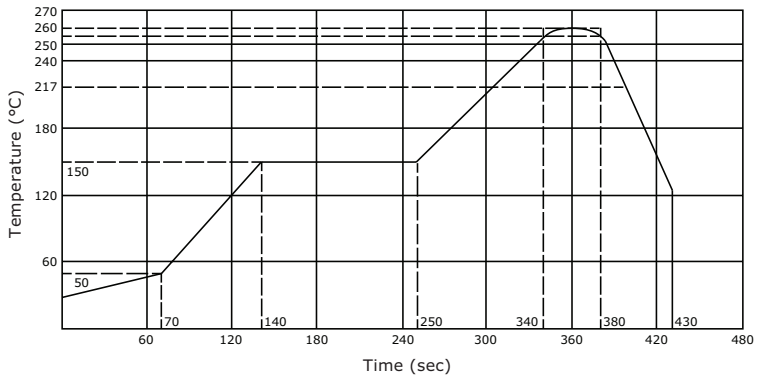
SPECIFICATIONS

parameter	conditions/description	min	typ	max	units
rated input voltage			24		Vdc
rated input current				2.5	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				

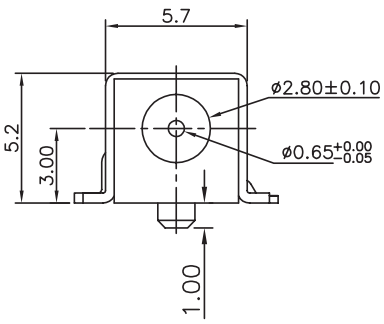
Note:
1. We recommend soldering within 72 hours from opening vacuum packaging at a temperature <30°C & relative humidity <80%.
2. When exceeding floor life by >72 hours.

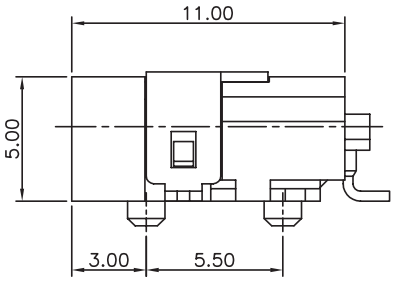


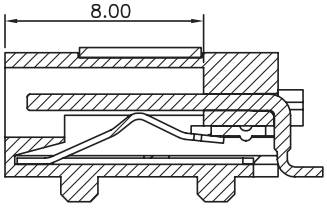
MECHANICAL DRAWING

units: mm
tolerance:
X. ±0.50 mm
X.X ±0.30 mm
X.XX ±0.20 mm
X.XXX ±0.10 mm
PCB: ±0.05 mm

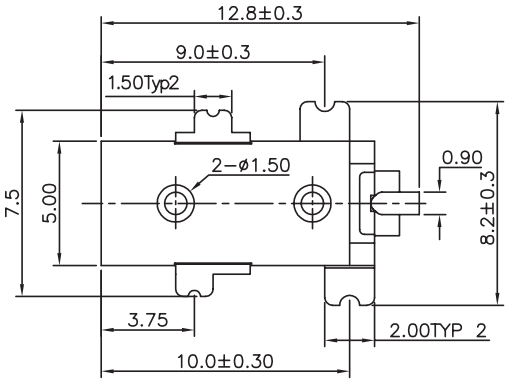
DESCRIPTION	MATERIAL	PLATING/COLOR
center pin	brass	silver
terminal 1	brass	silver
terminal 2	SUS301 t=0.25	silver
terminal 3	brass t=0.40	silver
shield	brass t=0.40	silver
housing	PA9T (UL94V-0)	black

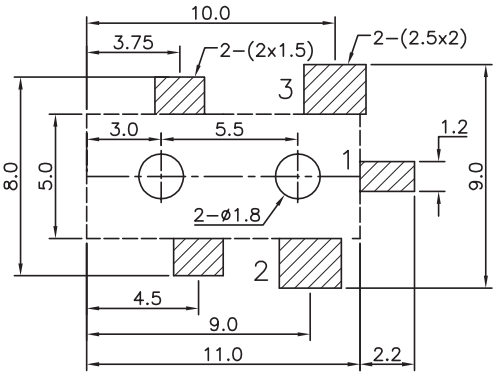




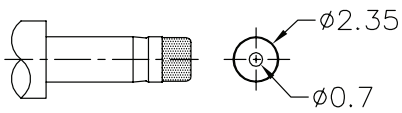


SECTION

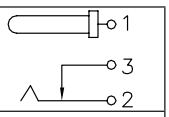




Recommended PCB Layout
Top View



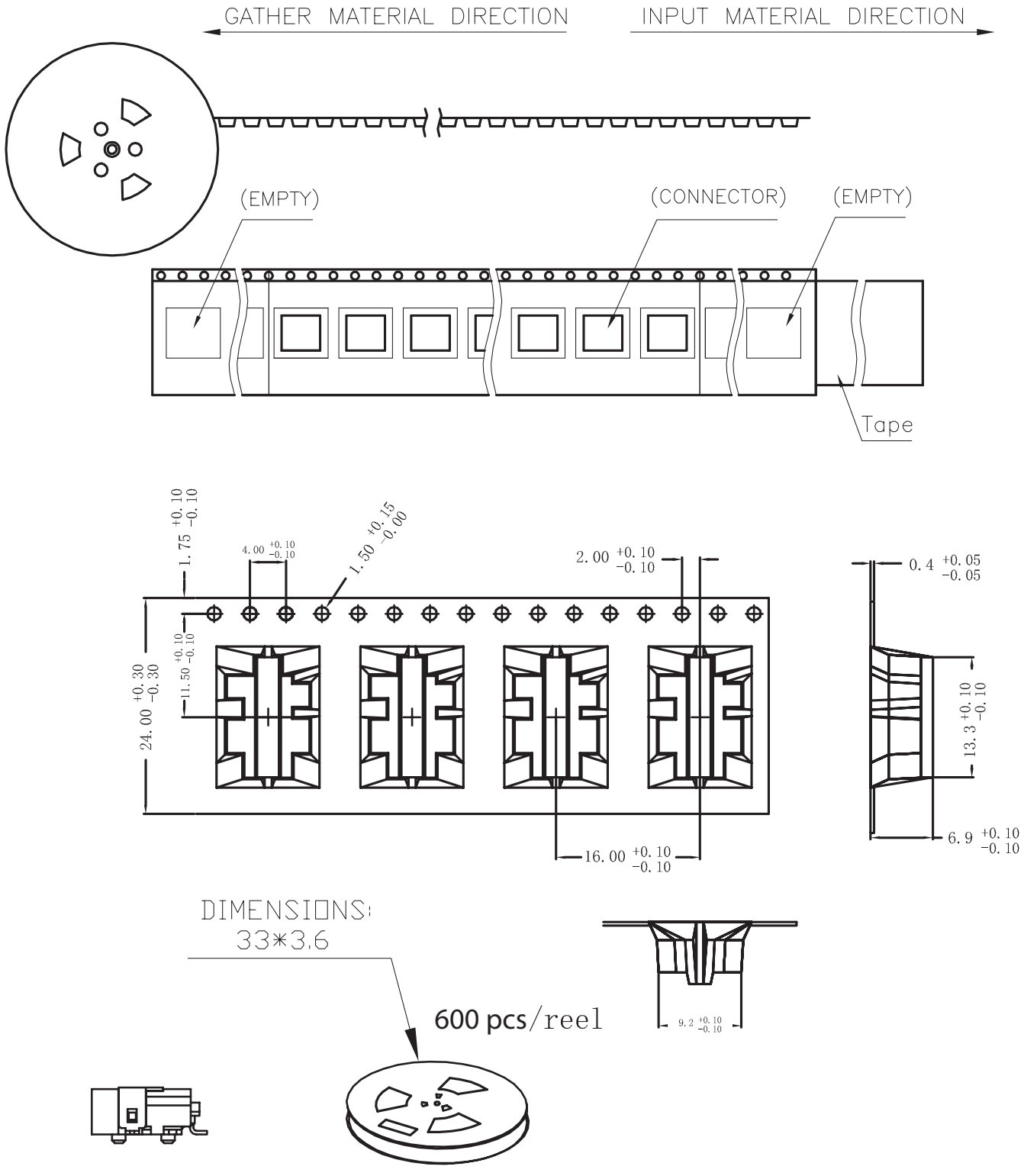
MATING PLUG
Jack Insertion Depth: 8.0 mm

SCHEMATIC	
Model	PJ1-023-SMT
Center Pin	Ø0.65 mm

PACKAGING

units: mm

Reel Size: Ø330 mm
Reel QTY: 600 pcs per reel



REVISION HISTORY

rev.	description	date
1.0	initial release	10/21/2005
1.01	correction made to spec rating	04/19/2006
1.02	added TR package option and jack insertion depth	11/07/2012
1.03	applied new spec template	08/22/2013
1.04	increased voltage rating	04/14/2016
1.05	added storage and drying conditions, and tape and reel packaging details	07/25/2017
1.06	brand update	10/21/2019
1.07	product reengineered for improved manufacturability and production yield, see PCN for details	02/24/2023
1.08	added center pin tolerance details	05/07/2024
1.09	CUI Devices rebranded to Same Sky	09/12/2024

The revision history provided is for informational purposes only and is believed to be accurate.

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Same Sky offers a one (1) year limited warranty. Complete warranty information is listed on our website.

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Same Sky products are not authorized or warranted for use as critical components in equipment that requires an extremely high level of reliability. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

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