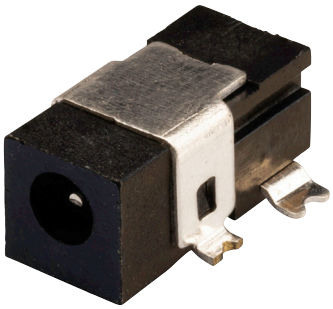
MODEL: PJ1-023-SMT-TR | DESCRIPTION: DC POWER JACK

FEATURES

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



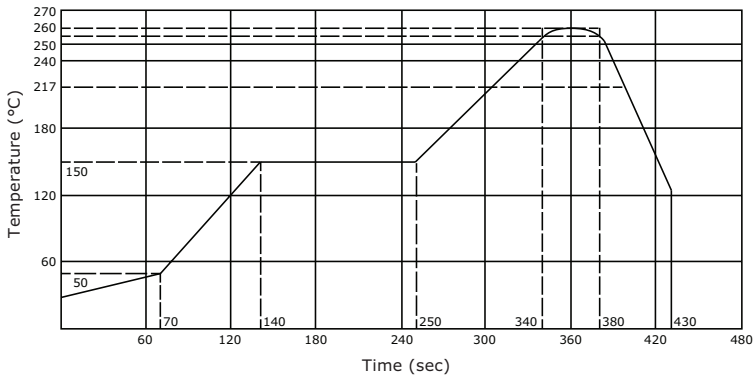
SPECIFICATIONS

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				

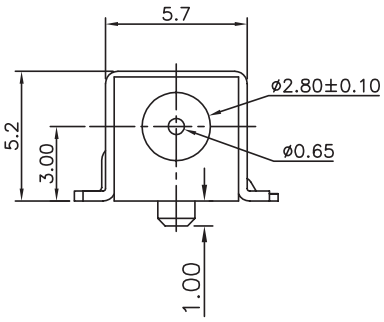
Note:
1. CUI Devices recommends to solder within 72 hours from opening vacuum packaging at a temperature <30°C & relative humidity <80%.
2. When exceeding floor life by >72 hours.

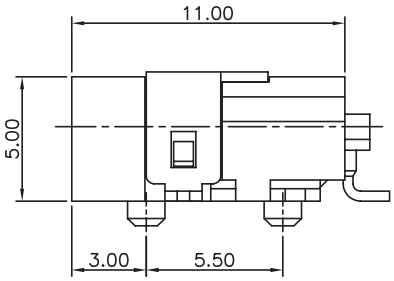


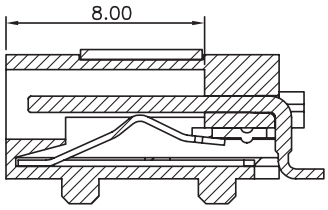
MECHANICAL DRAWING

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

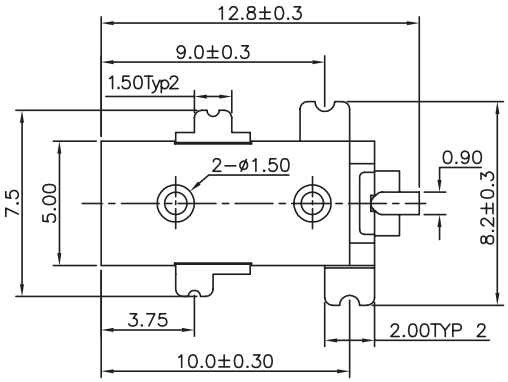
DESCRIPTION	MATERIAL	PLATING/COLOR
center pin	brass	silver
terminal 1	brass	silver
terminal 2	SUS301 t=0.25	silver
terminal 3	brass t=0.40	silver
shield	brass t=0.40	silver
housing	PA9T (UL94V-0)	black

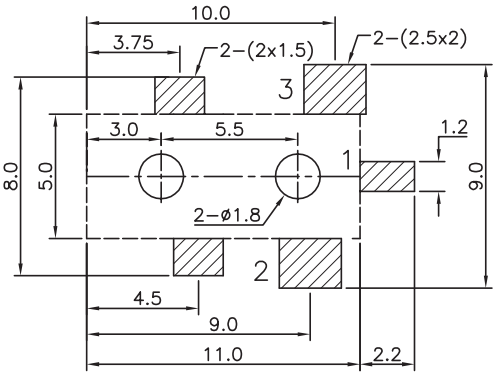




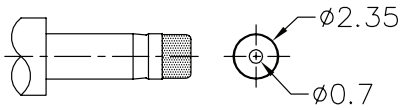


SECTION

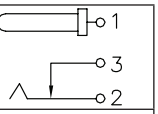




Recommended PCB Layout
Top View



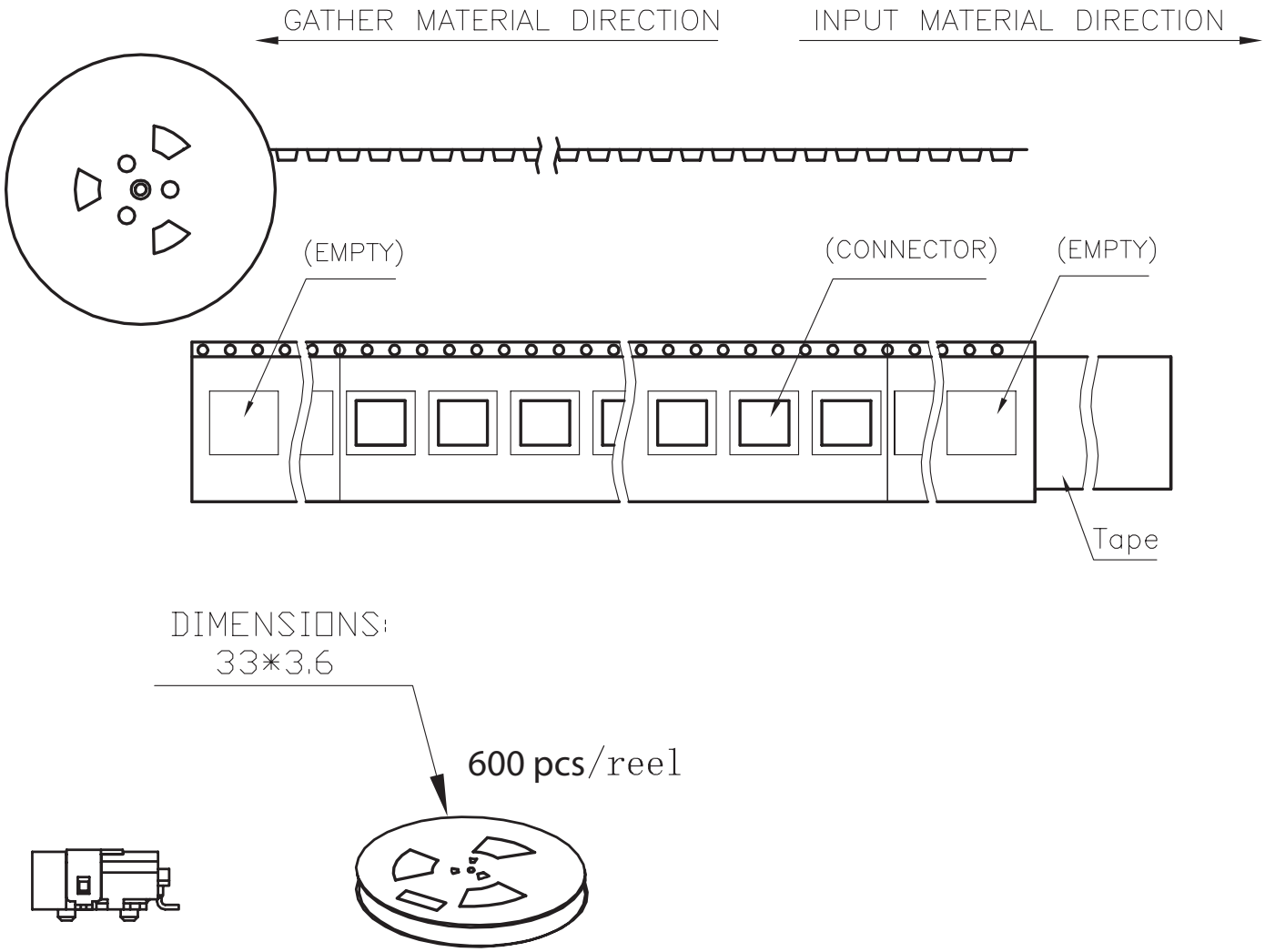
MATING PLUG
Jack Insertion Depth: 8.0 mm

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

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

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

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