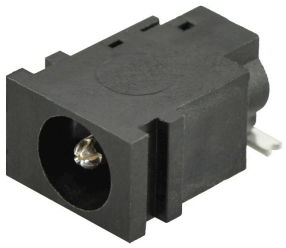
CUIDEVICES

MODEL: PJ1-021-SMT-TR | **DESCRIPTION:** DC POWER JACK

FEATURES

- 1.65mm center pin
- 5 A rating
- right angle orientation
- surface mount (SMT)
- internal switch



RoHS

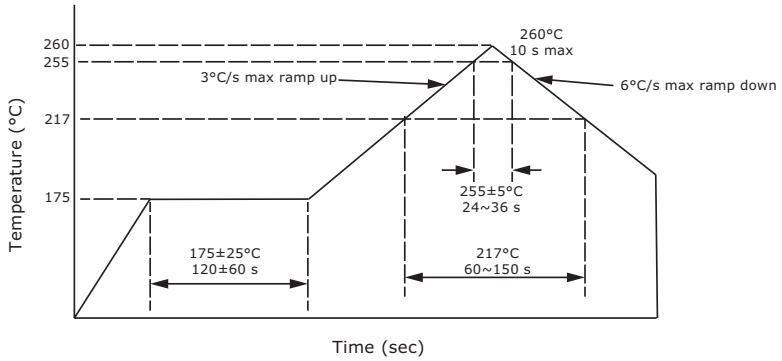
SPECIFICATIONS

parameter	conditions/description	min	typ	max	units
rated input voltage			24		Vdc
rated input current				5	A
contact resistance				30	mΩ
insulation resistance	at 250 Vdc	100			MΩ
voltage withstand	for 1 minute			500	Vac
insertion/withdrawal force		0.3		3	kg
operating temperature		-25		85	°C
storage temperature		-40		85	°C
life			5,000		cycles
flammability rating	UL94V-0				
RoHS	yes				

SOLDERABILITY

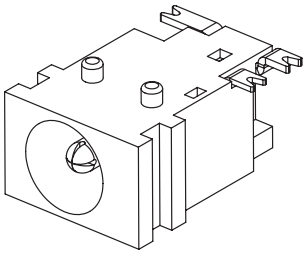
parameter	conditions/description	min	typ	max	units
reel storage	reel opened & unsused parts repacked within 2 hours: ≤30°C, ≤60% humidity reel unopened, 1 year shelf life: ≤30°C, ≤85% humidity				
reflow soldering	see reflow profile			260	°C
drying conditions	parts removed from reel over 6 hours: bake at 40°C for 6 hours				

Note: 1. CUI Devices recommends usage of the product within 2 hours after T&R is opened. After 6 hours, CUI Devices recommends drying the parts prior to use.

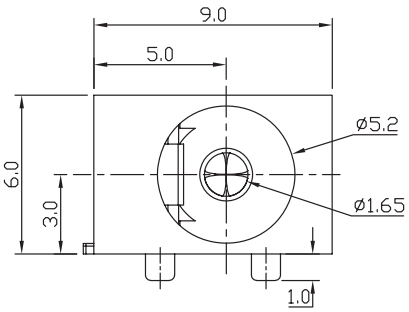


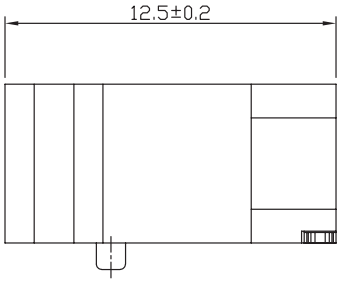
MECHANICAL DRAWING

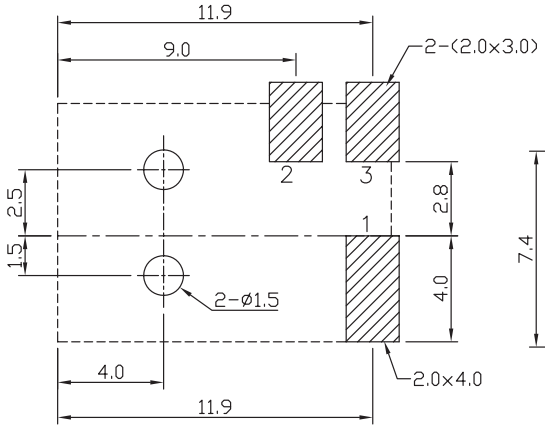
units: mm
tolerance:
±0.2 mm
unless otherwise specified



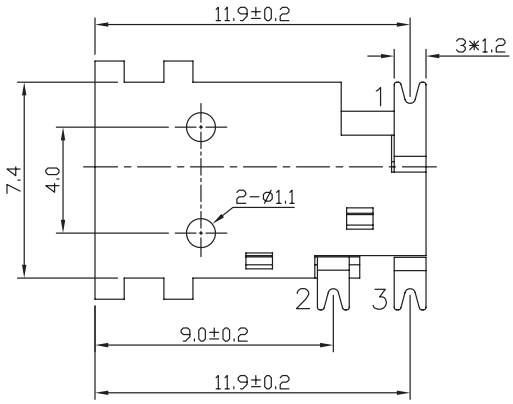
DESCRIPTION	MATERIAL	PLATING
center pin	brass	nickel
terminal 1	brass	nickel
terminal 2	bronze	silver
terminal 3	brass	silver
housing	PA9T (UL94V-0)	black

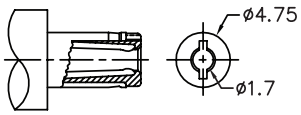






Recommended PCB Layout
Top View





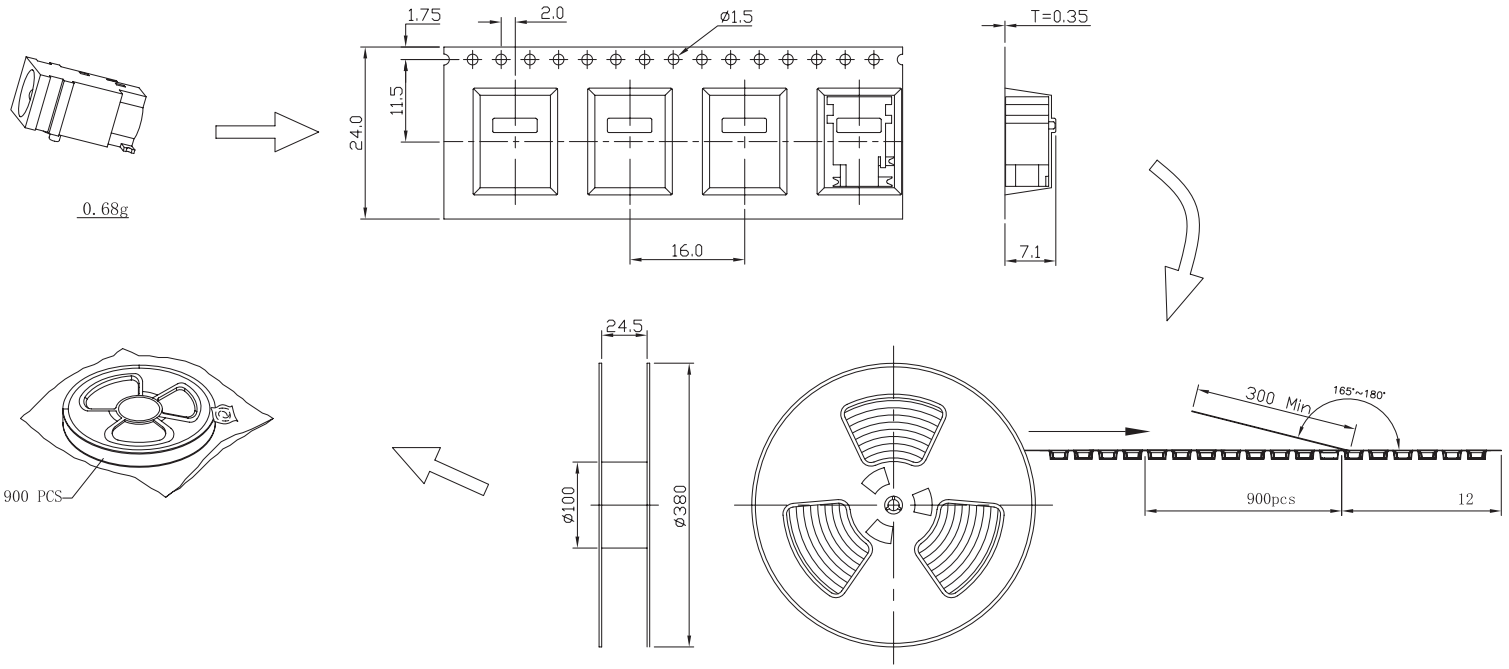
MATING PLUG
Jack Insertion Depth: 8.1 mm

SCHEMATIC	
Model	PJ1-021-SMT
Center Pin	Ø1.65 mm

PACKAGING

units: mm

Reel Size: Ø380 mm
Reel QTY: 900 pcs per reel



REVISION HISTORY

rev.	description	date
1.0	initial release	10/20/2005
1.01	changed housing material to PA6T from PBT	01/10/2006
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	04/08/2016
1.05	added storage and drying conditions, and tape and reel packaging details	07/28/2017
1.06	brand update	10/25/2019
1.07	product reengineered for improved manufacturability and production yield, see PCN for details	12/08/2022

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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