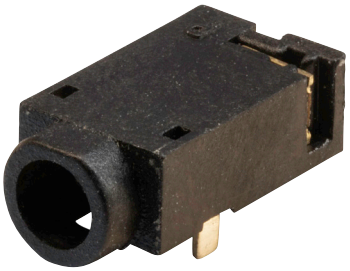
CUI Devices is now Same Sky! Learn More

same sky

MODEL: PJ-041-SMT-TR | DESCRIPTION: DC POWER JACK

FEATURES

- 0.65 mm center pin
- 1.0 A rating
- right angle orientation
- surface mount (SMT)



RoHS

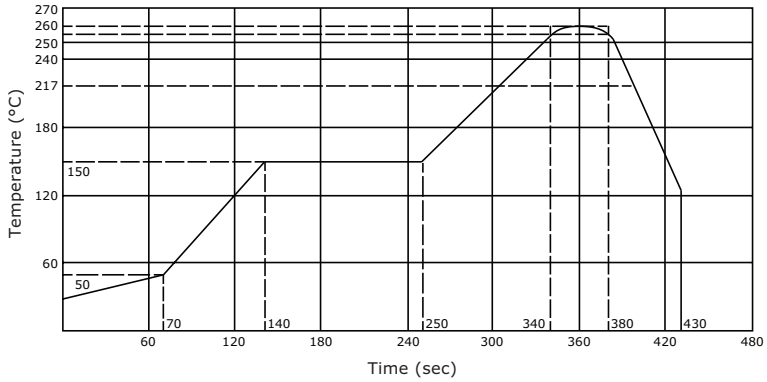
SPECIFICATIONS

parameter	conditions/description	min	typ	max	units
rated input voltage			24		Vdc
rated input current				1.0	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

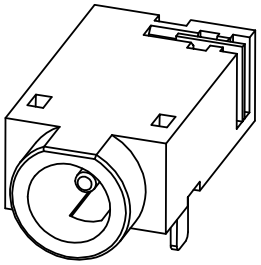
parameter	conditions/description	min	typ	max	units
reel storage	at relative humidity <80%			40	°C
reflow soldering[1]	see reflow profile	255	260	265	°C
drying conditions[2]	parts in reel: bake at 40°C ±5°C for 72 hours parts removed from reel: bake at 40°C ±5°C for 10 hours				

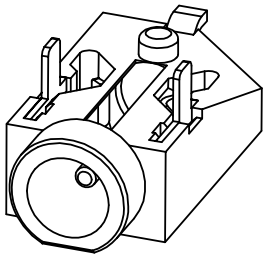
Note:
1. Same Sky recommends to solder within 72 hours from opening vacuum packaging at a temperature <30°C & relative humidity <80%.
2. When exceeding floor life by >72 hours.



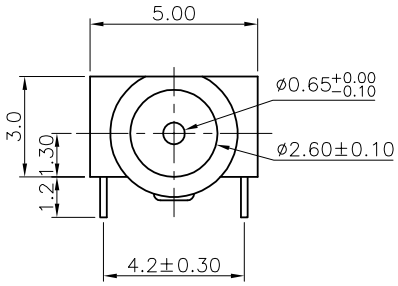
MECHANICAL DRAWING

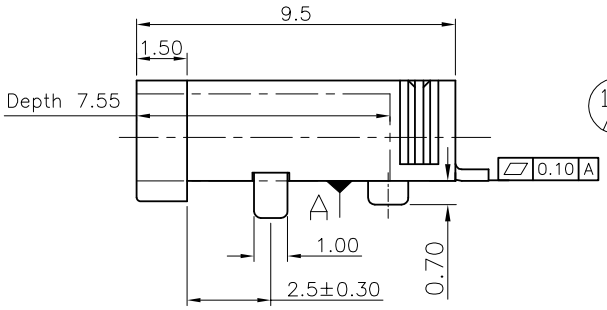
units: mm
tolerance:
X. ±0.50 mm
X.X ±0.30 mm
X.XX ±0.20 mm
X.XXX ±0.10 mm
PCB: ±0.05 mm
unless otherwise specified

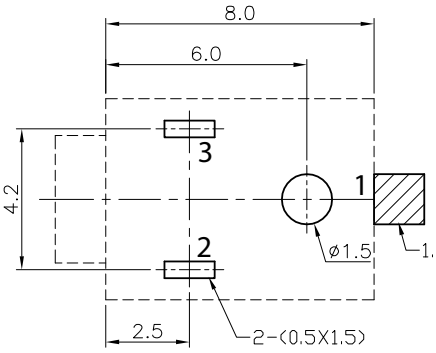




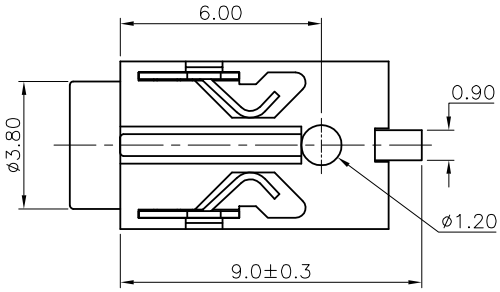
DESCRIPTION	MATERIAL	PLATING/COLOR
center pin	bronze	silver
terminal 1	bronze	silver
terminal 2	SUS301 t=0.20	gold
terminal 3	SUS301 t=0.20	gold
housing	PA10T (UL94V-0)	black

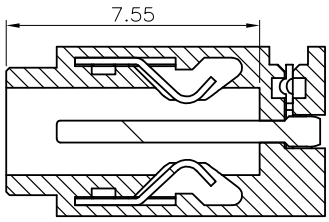




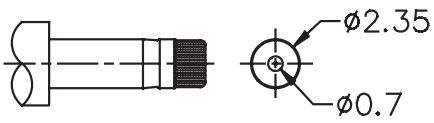


Recommended PCB Layout
Top View

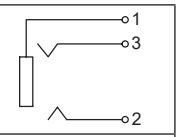




SECTION



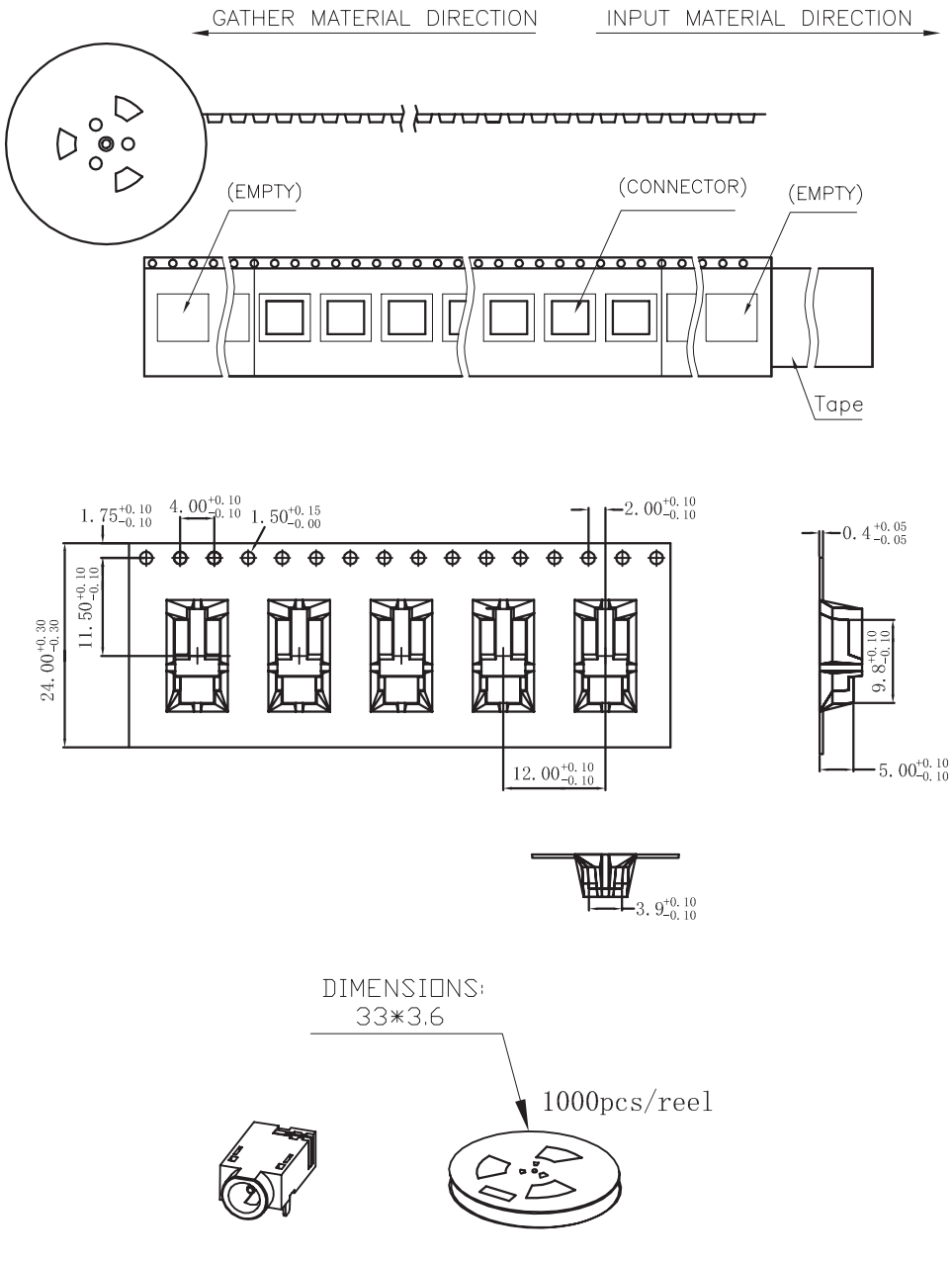
MATING PLUG
Jack Insertion Depth: 7.55 mm

SCHEMATIC	
Model	PJ-041-SMT
Center Pin	Ø0.65 mm

PACKAGING

units: mm

Reel Size: Ø330 mm
Reel QTY: 1,000 pcs per reel



REVISION HISTORY

rev.	description	date
1.0	initial release	02/05/2007
1.01	added TR package option	06/19/2013
1.02	applied new spec template	08/29/2013
1.03	increased voltage rating	04/14/2016
1.04	added storage and drying conditions, and tape and reel packaging details	08/29/2017
1.05	brand update	10/21/2019
1.06	logo, datasheet style update	08/05/2022
1.07	product reengineered for improved manufacturability and production yield, see PCN for details	12/12/2022
1.08	added tape and reel details	08/29/2023
1.09	CUI Devices rebranded to Same Sky	09/12/2024
1.10	added coplanarity symbol and measurement on the SMT section	11/26/2024

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

same sky

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