

MODEL: PJ-042-SMT-TR | **DESCRIPTION:** DC POWER JACK

FEATURES

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

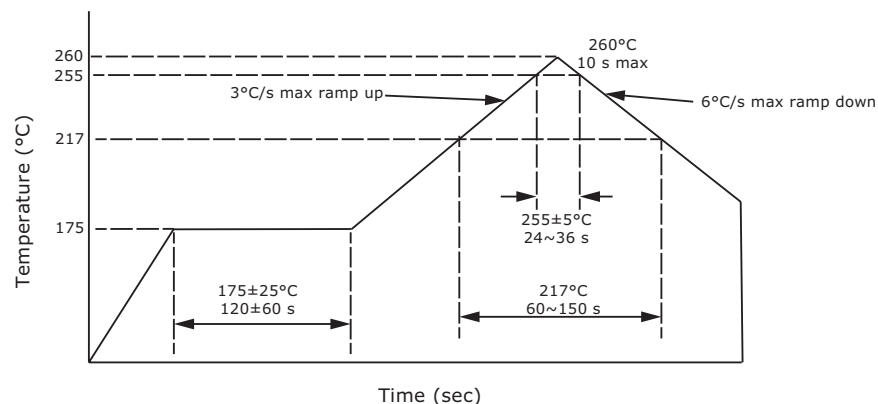

SPECIFICATIONS

parameter	conditions/description	min	typ	max	units
rated input voltage			24		Vdc
rated input current				1.0	A
contact resistance	between terminal and mating plug between terminal in a closed circuit			50 30	mΩ 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

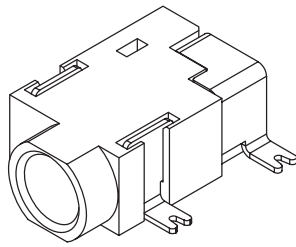
parameter	conditions/description	min	typ	max	units
reel storage	reel opened & unused parts repacked within 2 hours: ≤30°C, ≤60% humidity				
reflow soldering	see reflow profile			260	°C
drying conditions	parts removed from reel over 6 hours: bake at 40°C for 6 hours				

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

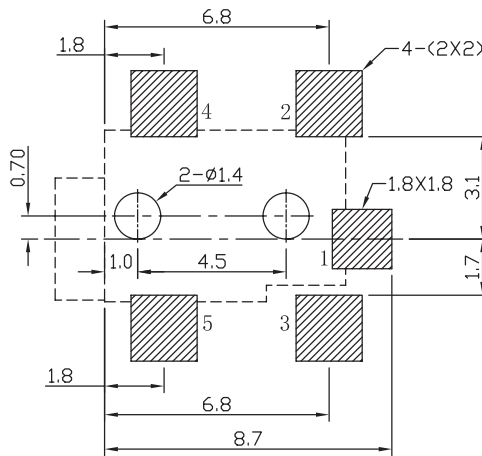
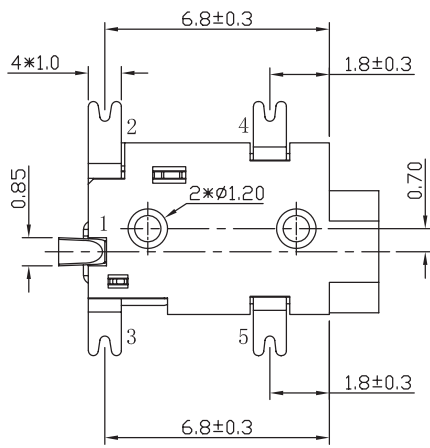
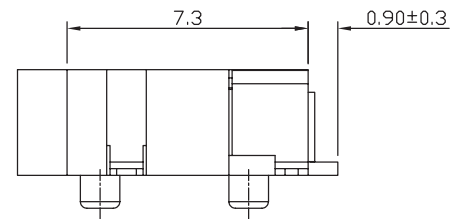
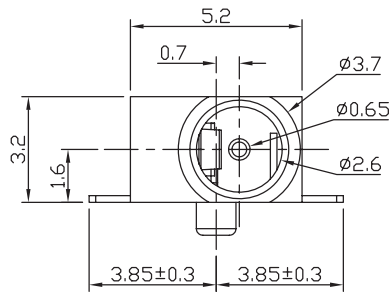
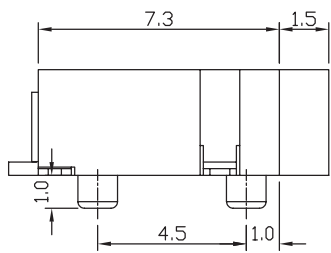


MECHANICAL DRAWING

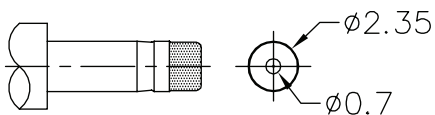
units: mm
tolerance: ±0.2mm
unless otherwise specified



DESCRIPTION	MATERIAL	PLATING/COLOR
center pin	H65 brass	silver
terminal 1	H65 brass	silver
terminal 2	bronze	silver
terminal 3	brass	silver
supports [4, 5]	brass	silver
stopper	brass	silver
housing	PA9T (UL94V-0)	black



Recommended PCB Layout
Top View



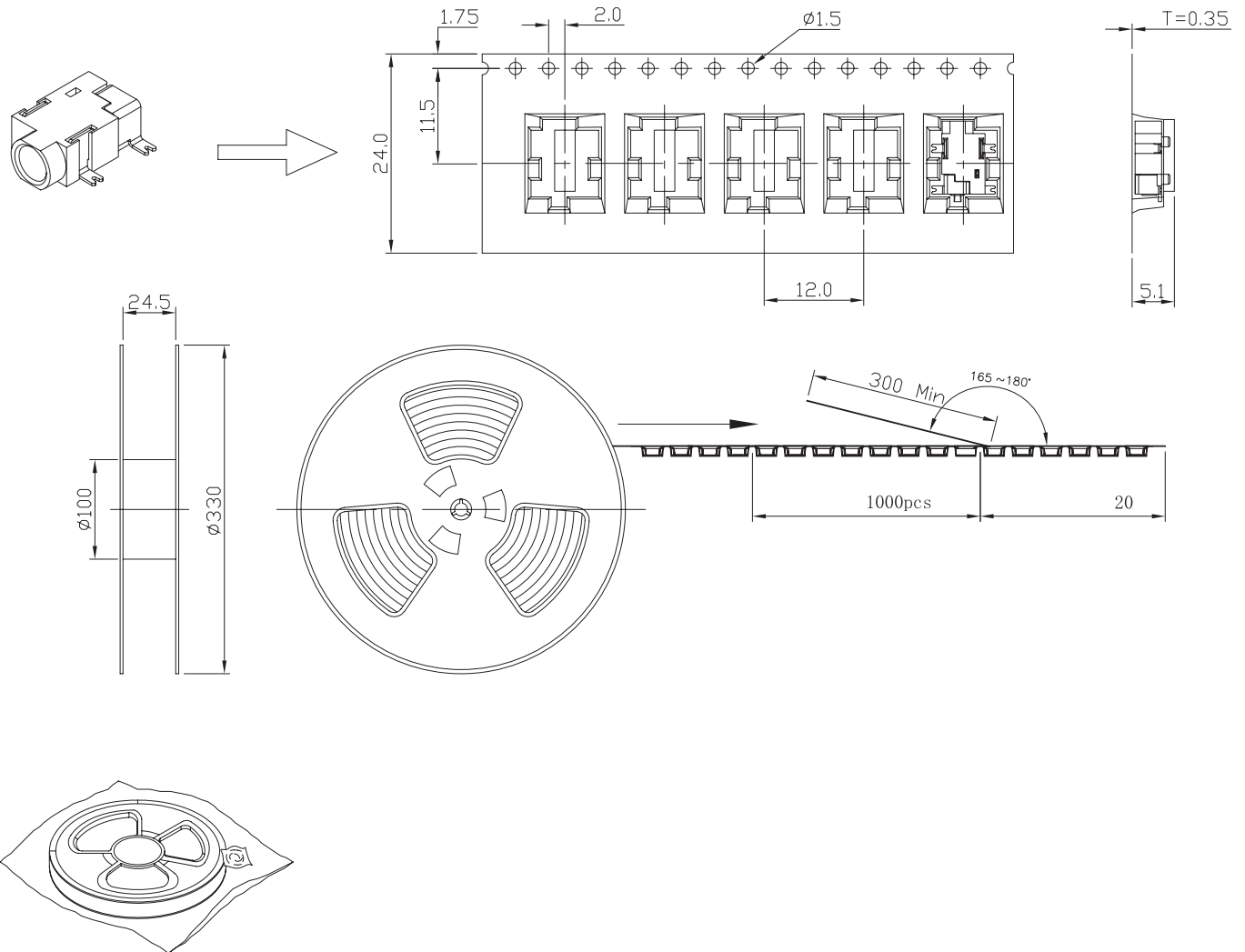
MATING PLUG
Jack Insertion Depth: 7.0 mm

SCHEMATIC	
Model	PJ-042-SMT
Center Pin	∅0.65 mm

PACKAGING

units: mm

Reel Size: $\varnothing 330$ 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 and jack insertion depth	11/07/2012
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	07/26/2017
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	03/02/2023
1.08	CUI Devices rebranded to Same Sky	09/12/2024
1.09	updated datasheet	01/08/2025

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



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

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