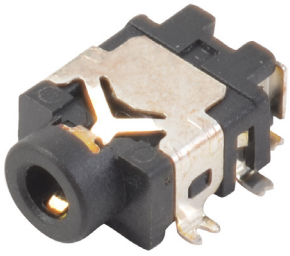
CUDEVICES

SERIES: SJ1-4253X-SMT | **DESCRIPTION:** AUDIO JACK

FEATURES

- low profile design
- switch options include:
  - no switch
  - tip switch
  - ring switch
  - tip and ring switch



RoHS

PART NUMBER KEY

SJ1 - 4253 X - SMT - TR

Base Number

Switch Options
4 = no switch
5TS = tip switch
6 = tip and ring switch

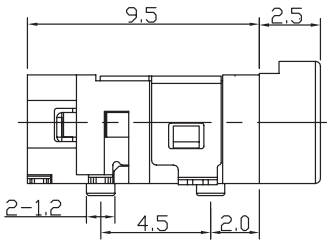
Packaging:
TR = Tape & Reel

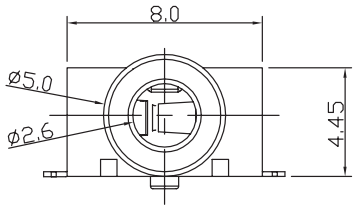
SPECIFICATIONS

parameter	conditions/description	min	typ	max	units
rated input voltage			12		Vdc
rated input current				1	A
contact resistance	between terminal and mating plug between terminal in a closed circuit			50 30	mΩ 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				

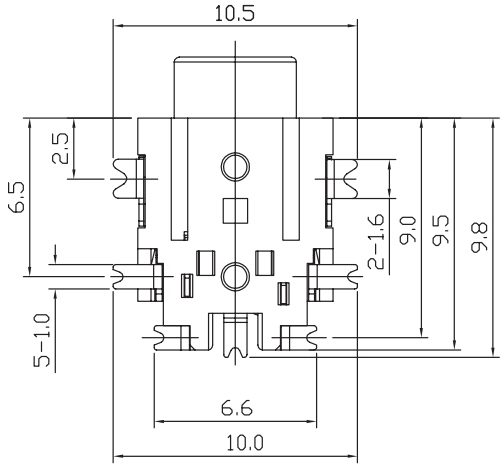
MECHANICAL DRAWING

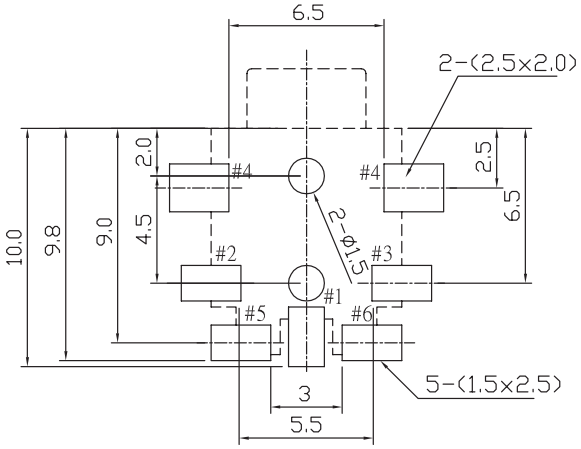
units: mm
tolerance:
X.X ±0.30 mm
X.XX ±0.25 mm
X.XXX ±0.20 mm
PCB: ±0.05 mm
unless otherwise specified



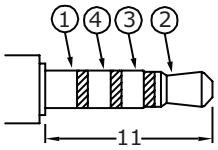


DESCRIPTION	MATERIAL	PLATING/COLOR
terminal 1	stainless steel t=0.20	silver over nickel
terminal 2	stainless steel t=0.20	silver over nickel
terminal 3	stainless steel t=0.20	silver over nickel
terminal 4	phosphorous bronze t=0.20	silver over nickel
terminal 5	brass t=0.20	silver over nickel
terminal 6	brass t=0.20	silver over nickel
housing	PA9T (UL94V-0)	black

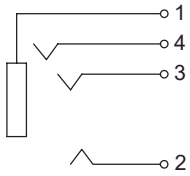
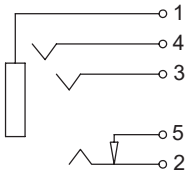
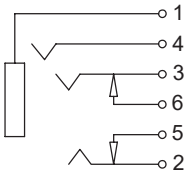




Recommended PCB Layout
Top View



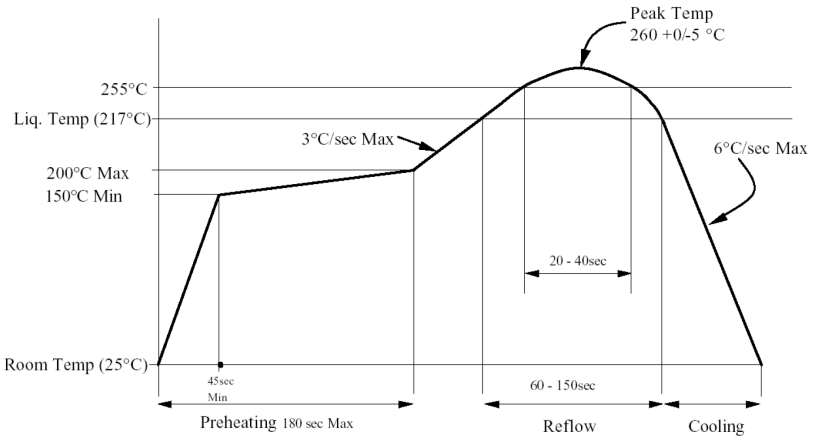
Ø2.5 MATING PLUG

Model No.	SJ1-42534-SMT	SJ1-42535TS-SMT	SJ1-42536-SMT
Schematic			
PIN			
1	sleeve	sleeve	sleeve
2	tip	tip	tip
3	ring 1	ring 1	ring 1
4	ring 2	ring 2	ring 2
5	NP	tip switch	tip switch
6	NP	NP	ring switch

SOLDERABILITY

parameter	conditions/description	min	typ	max	units
reel storage	5~25°C, 20~75% humidity				
reflow soldering	see reflow profile	255	260		°C

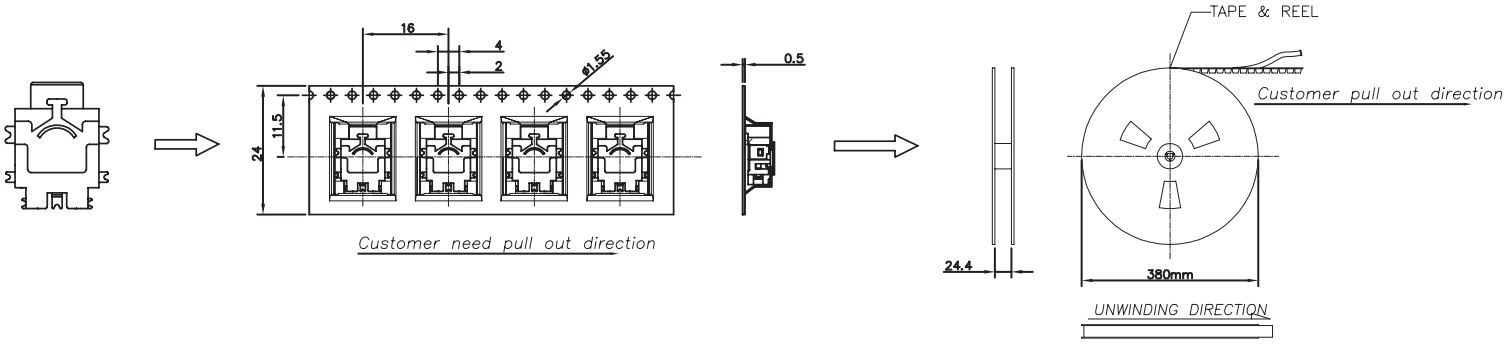
Note: 1. CUI Devices recommends usage of the product within 24 hours after T&R is opened. After 24 hours, CUI Devices recommends drying the parts prior to use.

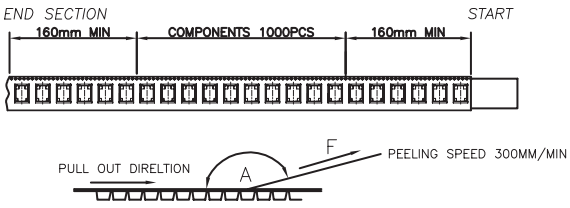


PACKAGING

units: mm

Reel Size: Ø380 mm
Reel QTY: 1,000 pcs per reel





COVER TYPE PEELING FORCE

A	165°–180°
F	0.1N–1.3N

REVISION HISTORY

rev.	description	date
1.0	initial release	05/01/2006
1.01	new template applied	01/27/2012
1.02	added TR package option	11/01/2012
1.03	added storage and drying conditions, and tape and reel packaging details	02/15/2018
1.04	brand update	10/04/2019
1.05	discontinued model SJ1-42535RS-SMT-TR; logo, datasheet style update	08/18/2022
1.06	product reengineered for improved manufacturability and production yield, see PCN for details	11/21/2022

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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