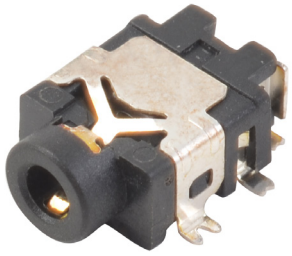
CUI Devices is now Same Sky! Learn More

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

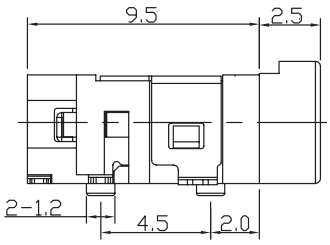
- Base Number
- Switch Options
  4 = no switch
  5TS = tip switch
  6 = tip and ring switch
- Packaging:
  TR = Tape & Reel

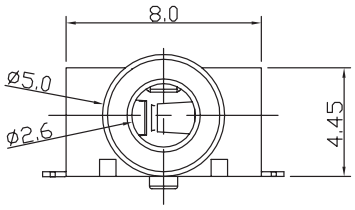
SPECIFICATIONS

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				

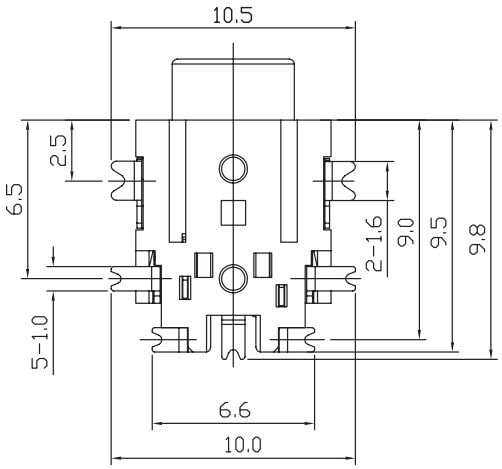
MECHANICAL DRAWING

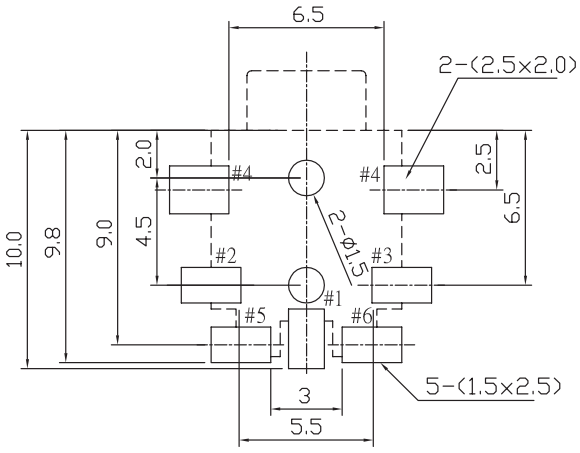
units: mm
tolerance:
X.X ±0.30 mm
X.XX ±0.25 mm
X.XXX ±0.20 mm
PCB: ±0.05 mm
unless otherwise specified



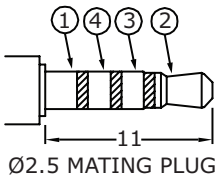


DESCRIPTION	MATERIAL	PLATING/COLOR
terminal 1	stainless steel t=0.20	silver over nickel
terminal 2	stainless steel t=0.20	silver over nickel
terminal 3	stainless steel t=0.20	silver over nickel
terminal 4	phosphorous bronze t=0.20	silver over nickel
terminal 5	brass t=0.20	silver over nickel
terminal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

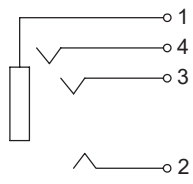
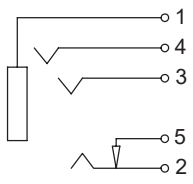
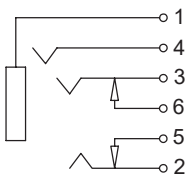




Recommended PCB Layout
Top View



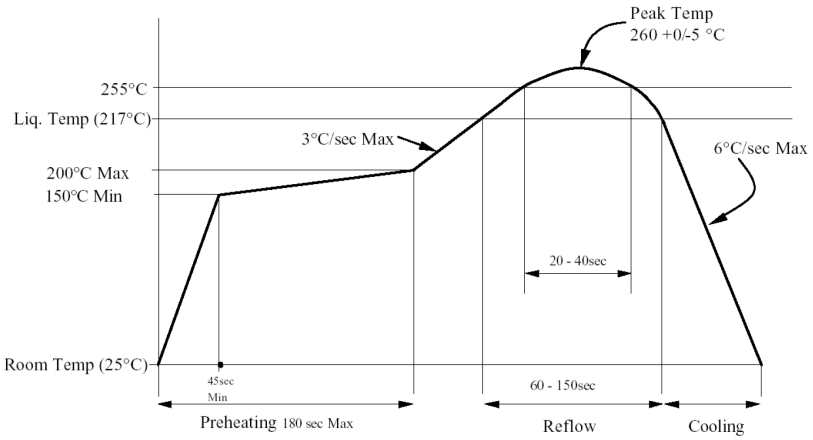
Ø2.5 MATING PLUG

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

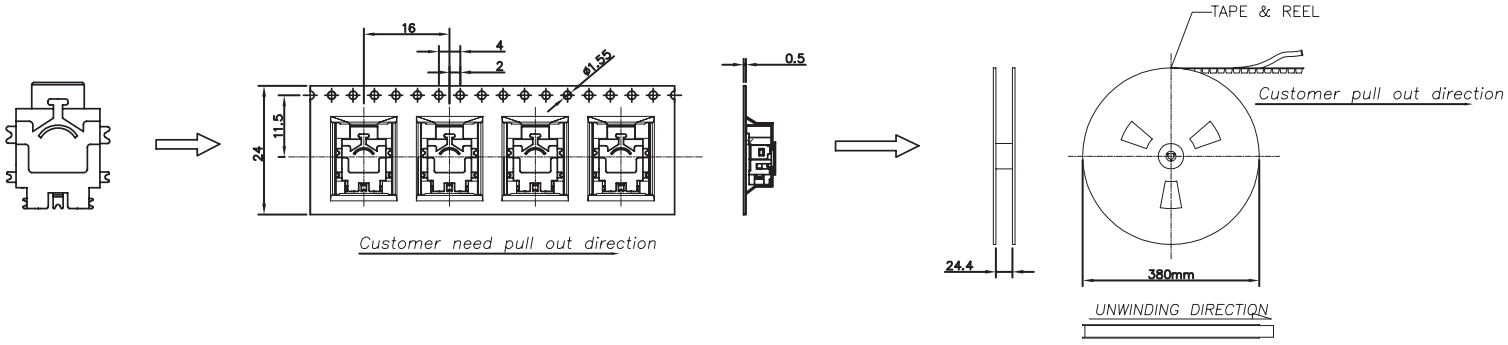
Note: 1. Same Sky recommends usage of the product within 24 hours after T&R is opened. After 24 hours, Same Sky recommends drying the parts prior to use.

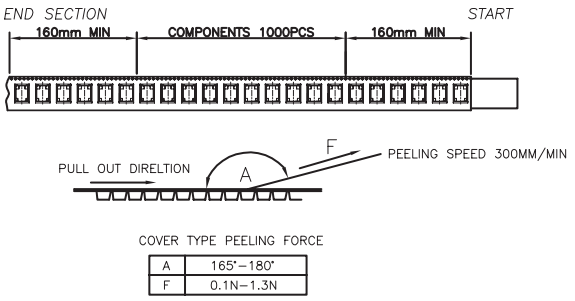


PACKAGING

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
1.07	CUI Devices rebranded to Same Sky	09/12/2024

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

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

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Same Sky products are not authorized or warranted for use as critical components in equipment that requires an extremely high level of reliability. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

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