

**SERIES:** SJ1-253X-SMT | **DESCRIPTION:** AUDIO JACK

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**FEATURES**

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

**PART NUMBER KEY**

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**SJ1 - 253 X - SMT - TR**

Base Number

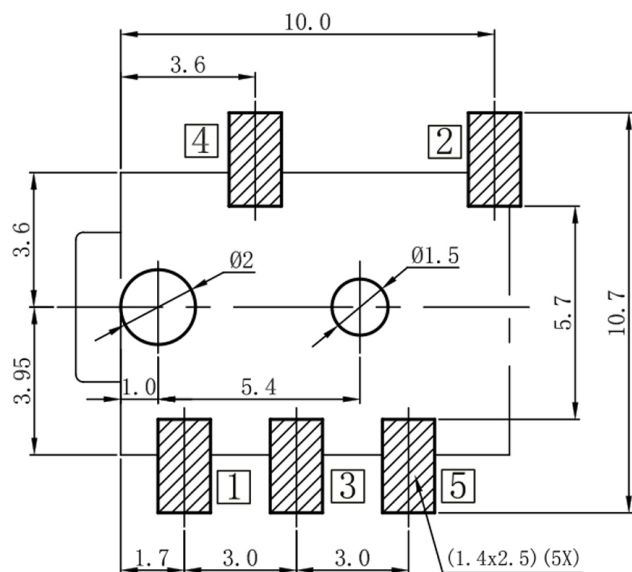
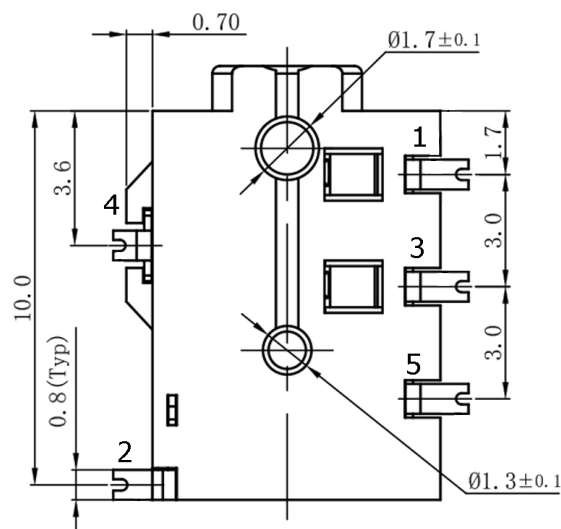
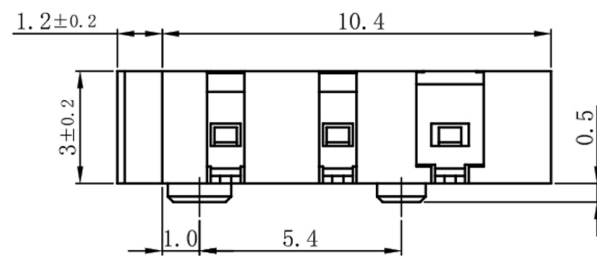
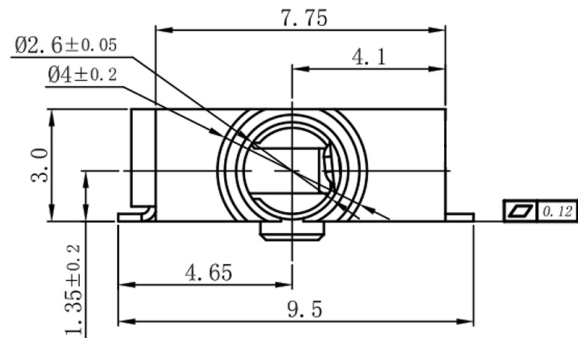
Switch Options:  
3 = no switch  
4 = tip switch  
5 = tip and ring switchPackaging:  
TR = Tape & Reel**SPECIFICATIONS**

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		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				

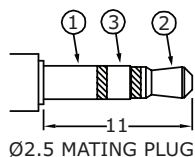
## MECHANICAL DRAWING

units: mm  
 tolerance:  
 X.X  $\pm 0.50$  mm  
 X.XX  $\pm 0.30$  mm  
 X.XXX  $\pm 0.15$  mm  
 PCB:  $\pm 0.05$  mm

DESCRIPTION	MATERIAL	PLATING/COLOR
terminal 1	copper alloy	gold
terminal 2	copper alloy	gold
terminal 3	copper alloy	gold
terminal 4	copper alloy	gold
terminal 5	copper alloy	gold
housing	PA9T (UL94V-0)	black



Recommended PCB Layout  
Top View



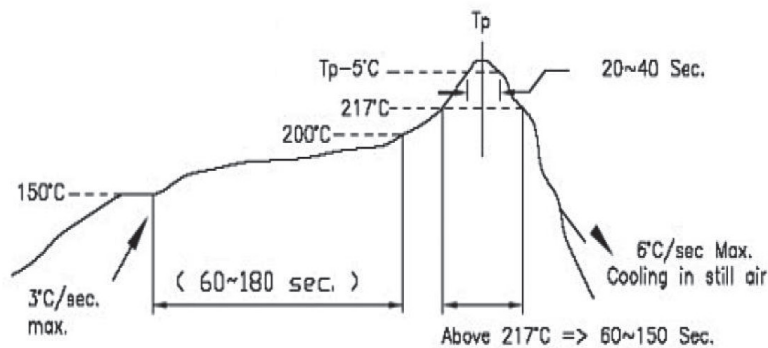
Model No.	SJ1-2533-SMT	SJ1-2534-SMT	SJ1-2535-SMT
Schematic			
PIN			
1	sleeve	sleeve	sleeve
2	tip	tip	tip
3	ring	ring	ring
4	NP	tip switch	tip switch
5	NP	NP	ring switch

## SOLDERABILITY

parameter	conditions/description	min	typ	max	units
reel storage	10~30°C, <70% humidity				°C
reflow soldering <sup>1</sup>	see reflow profile	255	260		°C
drying conditions <sup>2</sup>	parts in reel: bake at 110°C for 4 hours parts removed from reel: bake at 110°C for 4 hours				

Note:

1. CUI Devices recommends to solder within 72 hours from opening vacuum packaging at a temperature <30°C & relative humidity <60%.
2. When exceeding floor life by >240 hours.

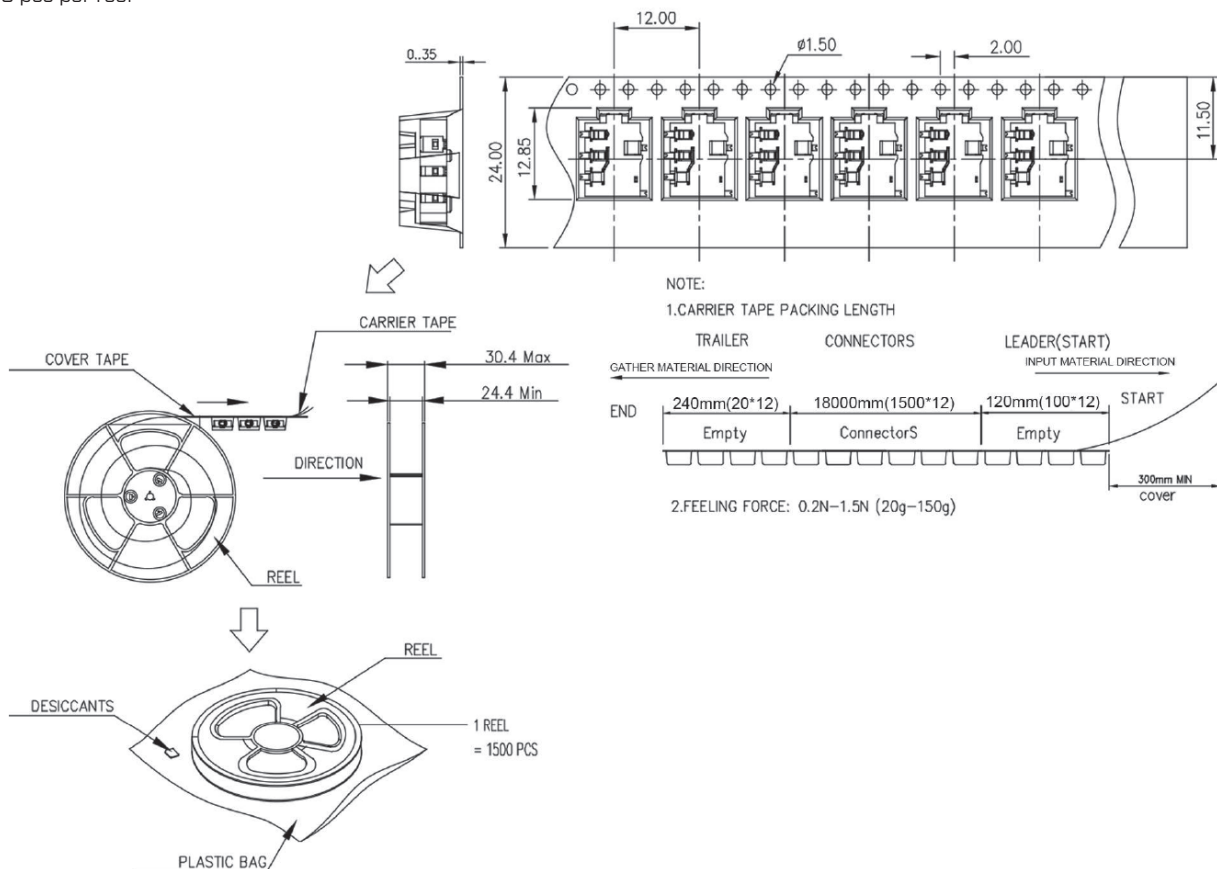


- \* Time 25°C to Peak Temp. ---- 8 Minutes Max.
- \* Time within 5°C of Actual Peak Temp. -- 20~40 Seconds

## PACKAGING

units: mm

Reel Size: Ø330 mm  
Reel QTY: 1,500 pcs per reel



## REVISION HISTORY

rev.	description	date
1.0	initial release	02/07/2006
1.01	new template applied	01/25/2012
1.02	added TR package option	11/01/2012
1.03	added storage and drying conditions, and tape and reel packaging details	02/14/2018
1.04	brand update	10/04/2019
1.05	product reengineered for improved manufacturability and production yield, see PCN for details	04/28/2023

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



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