# **CUI** DEVICES

date 10/04/2019

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SERIES: SJ2-253X-SMT | DESCRIPTION: AUDIO JACK

#### **FEATURES**

- multiple switch configurations
- low profile design
- reflow solder compatible
- surface mount





#### **PART NUMBER KEY**

### SJ2-253 X X

Base Number

# Conductors:

 $2^1 = 2$ 3 = 3

Switch Options:

A = no switch B = tip switch

C = ring switch
D = tip & ring switch

Package Style: SMT = surface mount Packaging:

TR = Tape & Reel

Note: 1. 2 conductor option only available with tip switch

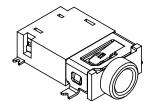
#### **SPECIFICATIONS**

parameter	conditions/description	min	typ	max	units
rated input voltage			12		Vdc
rated input current				1	А
contact resistance <sup>2</sup>	between terminal and mating plug between terminal in a closed circuit			50 30	$m\Omega$
insulation resistance	at 500 Vdc	100			ΜΩ
voltage withstand	for 1 minute			500	Vac
insertion/withdrawal force		0.3		3	kg
operating temperature		-25		85	°C
life	at a rate of 24 cycles/minute		5,000		cycles
flammability rating	UL94V-0				
RoHS	yes				

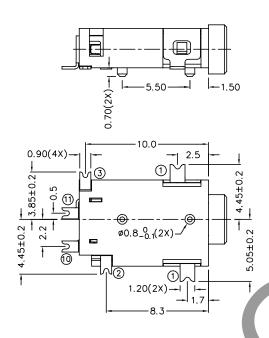
- When measured at a current of less than 100 mA/1 kHz
- All specifications measured at 10~35°C, humidity at 45~85%, under standard atmospheric pressure, unless otherwise noted.

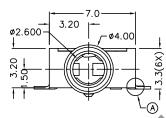
#### **MECHANICAL DRAWING**

units: mm tolerance:  $X.X \pm 0.2 \text{ mm}$  $X.XX \pm 0.10 mm$  $X.XXX \pm 0.050 \text{ mm}$ PCB: ±0.05 mm

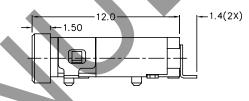


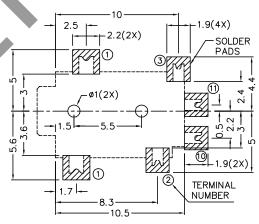
MATERIAL	PLATING
copper alloy	silver
copper alloy	silver
copper alloy	silver
brass	silver
brass	silver
PA10T	
	copper alloy copper alloy copper alloy brass brass



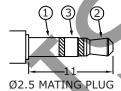








Recommended PCB Layout Top View



Model No.	SJ2-2532B-SMT	SJ2-2533A-SMT	SJ2-2533B-SMT	SJ2-2533C-SMT	SJ2-2533D-SMT
Schematic	010	01	01 03 010 02	01 03 011 02	01 03 011 010 02
PIN					
1	sleeve	sleeve	sleeve	sleeve	sleeve
2	tip	tip	tip	tip	tip
3	NP	ring	ring	ring	ring
10	tip switch	NP	tip switch	NP	tip switch
11	NP	NP	NP	ring switch	ring switch

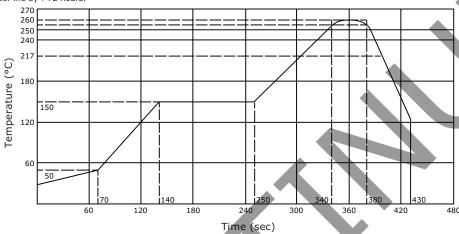
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#### **SOLDERABILITY**

parameter	conditions/description	min	typ	max	units
reel storage	at relative humidity <80%			40	°C
reflow soldering <sup>1</sup>	see reflow profile	255	260	265	°C
drying conditions <sup>2</sup>	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. Must reflow solder within 72 hours from opening vacuum packaging at a temperature <30°C & relative humidity <60%.
- 2. When exceeding floor life by >72 hours.

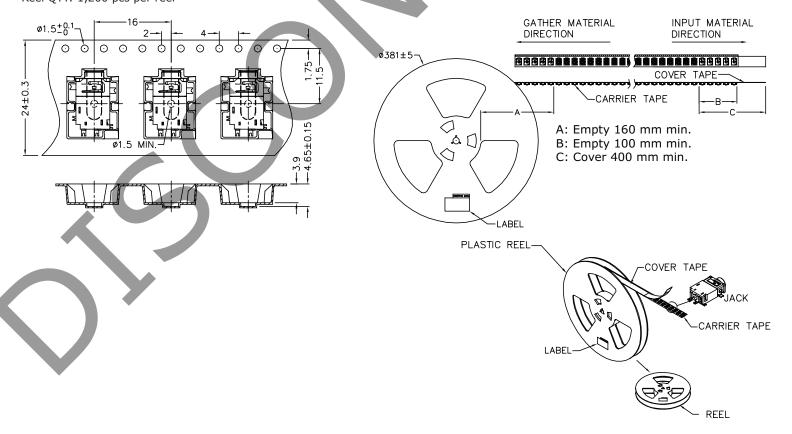


#### **PACKAGING**

units: mm

Reel Size: Ø381 mm

Reel QTY: 1,200 pcs per reel



#### **REVISION HISTORY**

rev.	description	date
1.0	initial release	12/02/2016
1.01	added storage and drying conditions	06/06/2017
1.02	brand update	10/04/2019

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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