

date 01/03/2018

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SERIES: SJ1-251X-SMT | DESCRIPTION: AUDIO JACK

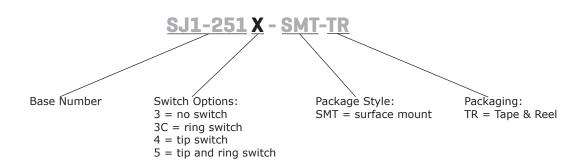
FEATURES

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





PART NUMBER KEY



SPECIFICATIONS

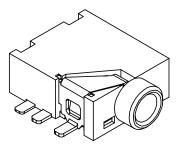
parameter	conditions/description	min	typ	max	units
rated input voltage			12		Vdc
rated input current				1	Α
contact resistance ¹	between terminal and mating plug between terminal in a closed circuit			50 30	mΩ mΩ
insulation resistance	at 500 Vdc	100			MΩ
voltage withstand	for 1 minute			500	Vac
insertion/withdrawal force		0.3		3	kg
operating temperature		-25		85	°C
life	at a rate of 24 cycles/minute	5,000		cycles	
flammability rating	UL94V-0				
RoHS	2011/65/EU				

Note:

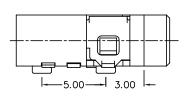
- 1. When measured at a current of less than 100 mA/1 kHz
- 2. All specifications measured at 10~35°C, humidity at 45~85%, under standard atmospheric pressure, unless otherwise noted.

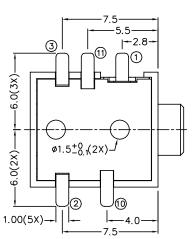
MECHANICAL DRAWING

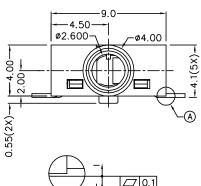
units: mm tolerance: $X.X \pm 0.2 \text{ mm}$ $X.XX \pm 0.10 mm$ $X.XXX \pm 0.050 \text{ mm}$ PCB: ±0.05 mm

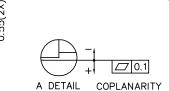


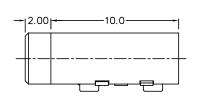
	MATERIAL	PLATING
terminal 1	copper alloy	gold flash
terminal 2	copper alloy	gold flash
terminal 3	copper alloy	gold flash
terminal 10	brass	gold flash
terminal 11	brass	gold flash
plastic	PA10T	

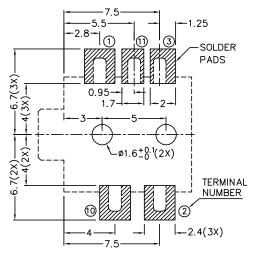




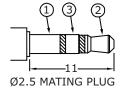








Recommended PCB Layout Top View



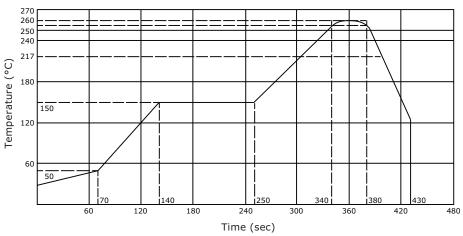
Model No.	SJ1-2513-SMT	SJ1-2513C-SMT	SJ1-2514-SMT	SJ1-2515-SMT
Schematic	01 03 03	01 03 011 02	01 03 010 02	01 03 011 010 02
PIN				
1	sleeve	sleeve	sleeve	sleeve
2	tip	tip	tip	tip
3	ring	ring	ring	ring
10	NP	NP	tip switch	tip switch
11	NP	ring switch	NP	ring switch

SOLDERABILITY

parameter	conditions/description	min	typ	max	units
reel storage	at relative humidity <80%			40	°C
reflow soldering ¹	see reflow profile	255	260	265	°C
drying conditions ²	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.

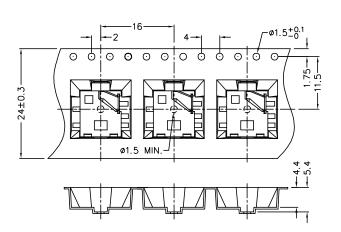


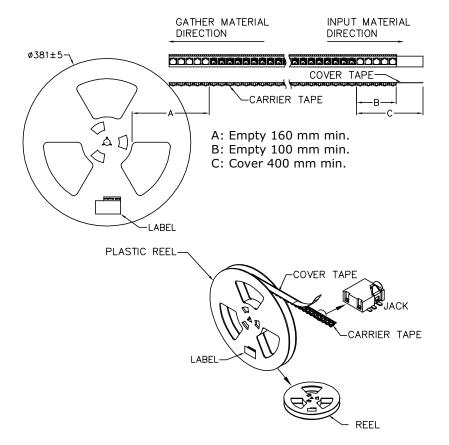
PACKAGING

units: mm

Reel Size: Ø381 mm

Reel QTY: 1,000 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 model, updated datasheet	12/07/2016	
1.04	added storage and drying conditions	01/03/2018	

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



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

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