

**date** 02/14/2018

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SERIES: SJ1-253X-SMT | DESCRIPTION: 2.5 MM AUDIO JACKS

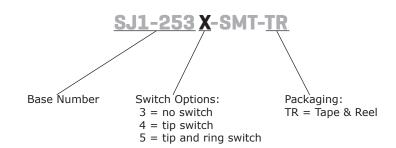
#### **FEATURES**

- low profile design
- switch options include:
- no switch
- tip switch
- tip and ring switch
- suitable for medical applications





# **PART NUMBER KEY**



#### **SPECIFICATIONS**

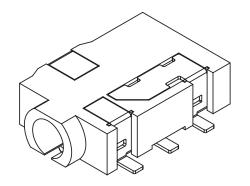
<u></u>					
parameter	conditions/description	min	typ	max	units
rated input voltage			12		Vdc
rated input current				1	Α
contact resistance <sup>1</sup>	between terminal and mating plug between terminal in a closed circuit			50 30	$m\Omega$
insulation resistance	at 500 Vdc	100			MΩ
voltage withstand	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:

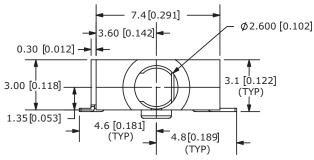
- 1. When measured at a current of less than 100 mA/1 kHz
- 2. All specifications measured at 10~35°C, humidity at 45~85%, under standard atmospheric pressure, unless otherwise noted.

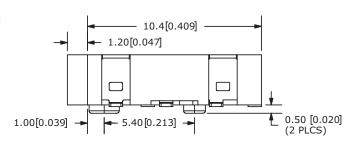
# **MECHANICAL DRAWING**

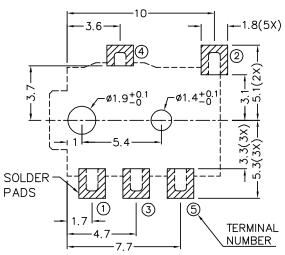
units: mm[inches] tolerance:  $X.X \pm 0.2 mm$  $X.XX \pm 0.10 \text{ mm}$ X.XXX ±0.050 mm PCB: ±0.05 mm



	MATERIAL	PLATING
terminal 1	copper alloy	gold flash
terminal 2	copper alloy	gold flash
terminal 3	copper alloy	gold flash
terminal 4	brass	gold flash
terminal 5	copper alloy	gold flash
plastic	PA6T or equivalent	

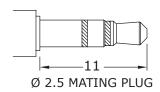






7.7[0.303] 4.7 [0.185] Ø1.3 [0.051] 1.7[0.067] +0.0 -0.1 [Ø1.8 0.071] +0.0--0.1 0.80 [0.031] 3.6 [0.142] (5 PLCS) 10.0 [0.394] -

Recommended PCB Layout Top View



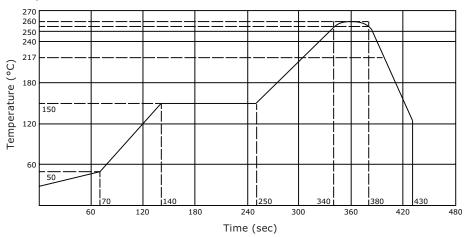
Model No.	SJ1-2533-SMT	SJ1-2534-SMT	SJ1-2535-SMT
Schematic	°1 °3 °2	01 03 04 02	01 03 05 04 02
PIN			
1	sleeve	sleeve	sleeve
2	tip	tip	tip
3	ring	ring	ring
4	NP	tip switch	tip switch
5	NP	NP	ring swtich

# **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 $40^{\circ}$ C $\pm 5^{\circ}$ C for 72 hours parts removed from reel: bake at $40^{\circ}$ C $\pm 5^{\circ}$ C for 10 hours				

Note:

- 1. Must reflow solder within 72 hours from opening vacuum packaging at a temperature <30°C & relative humidity <60%. When exceeding floor life by >72 hours.

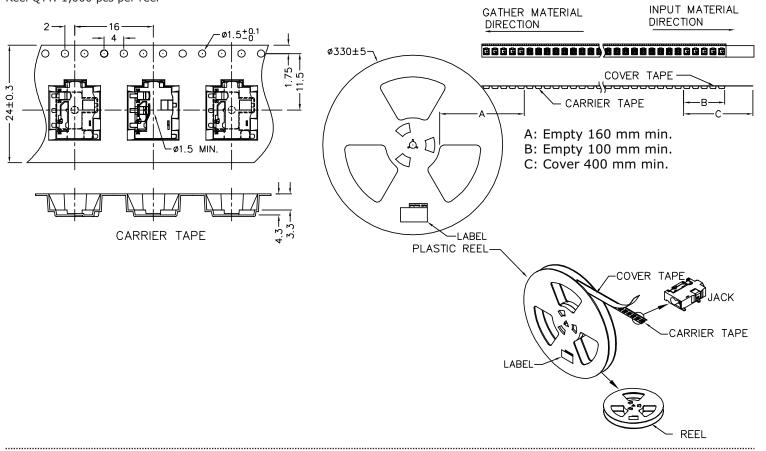


# **PACKAGING**

units: mm

Reel Size: Ø330 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 storage and drying conditions, and tape and reel packaging details	02/14/2018

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



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