CUI DEVICES

date 10/07/2019

page 1 of 4

SERIES: SJ2-2551X-SMT | DESCRIPTION: AUDIO JACK

FEATURES

- multiple switch configurations
- low profile design
- reflow solder compatible
- surface mount
- suitable for medical applications





PART NUMBER KEY

Base Number

Conductors:

Switch Options:

A = no switch

B = tip switch C = ring switch
D = tip & ring switch Package Style: SMT = surface mount

Packaging: TR = Tape & Reel

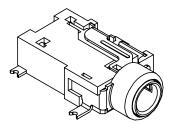
SPECIFICATIONS

parameter	conditions/description	min	typ	max	units
rated input voltage			12		Vdc
rated input current				1	А
contact resistance ¹	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	yes				

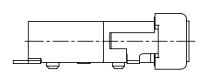
When measured at a current of less than 100 mA/1 kHz All specifications measured at $10\sim35^{\circ}$ C, humidity at $45\sim85\%$, under standard atmospheric pressure, unless otherwise noted.

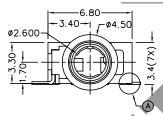
MECHANICAL DRAWING

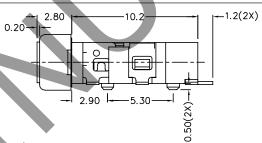
units: mm tolerance: $X.X \pm 0.2 \text{ mm}$ $X.XX \pm 0.10 \text{ mm}$ $X.XXX \pm 0.050 \text{ mm}$ PCB: ±0.05 mm

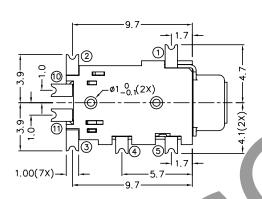


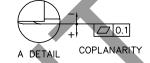
	MATERIAL	PLATING
terminal 1	brass	gold flash
terminal 2	copper alloy	silver
terminal 3	copper alloy	silver
terminal 4	copper alloy	silver
terminal 5	copper alloy	silver
terminal 10	brass	silver
terminal 11	brass	silver
plastic	PA10T	

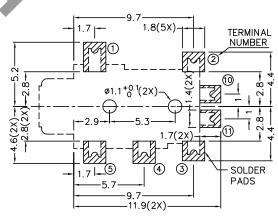




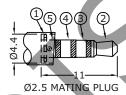








Recommended PCB Layout Top View



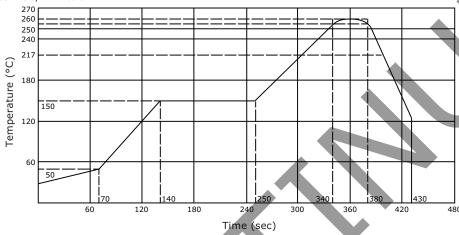
Model No.	SJ2-25515A-SMT	SJ2-25515B-SMT	SJ2-25515C-SMT	SJ2-25515D-SMT	
Schematic	0 1 0 5 0 6 0 4 0 3	0 1 0 5 0 4 0 3 0 3	0 1 0 5 0 4 0 3 0 11	01 05 04 03 011 010 02	
PIN					
1	outer ring	outer ring	outer ring	outer ring	
2	tip	tip	tip	tip	
3	ring 1	ring 1	ring 1	ring 1	
4	ring 2	ring 2	ring 2	ring 2	
5	sleeve	sleeve	sleeve	sleeve	
10	NP	tip switch	NP	tip switch	
11	NP	NP	ring 1 switch ring 1 swit		

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

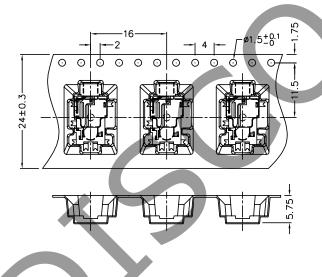


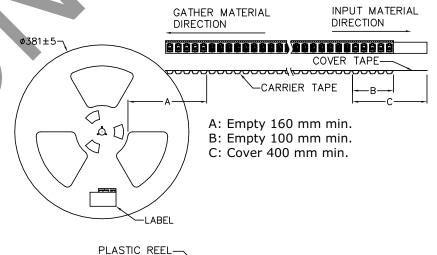
PACKAGING

units: mm

Reel Size: Ø381 mm

Reel QTY: 1,000 pcs per reel





REVISION HISTORY

rev.	description	date
1.0	initial release	12/08/2016
1.01	added storage and drying conditions	06/06/2017
1.02	brand update	10/07/2019

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



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