# **CUI** DEVICES

**date** 10/04/2019

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SERIES: SJ2-255X-SMT | DESCRIPTION: AUDIO JACK

#### **FEATURES**

- 5 conductor
- low profile design
- reflow solder compatible
- surface mount





#### **PART NUMBER KEY**

## SJ2-255 X X - SMT-TR

Base Number

# Conductors:

Switch Options:

A = no 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	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
nsertion/withdrawal force		0.3		3	kg
pperating temperature		-25		85	°C
ife	at a rate of 24 cycles/minute		5,000		cycles
lammability rating	UL94V-0				
RoHS	yes				

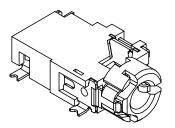
Note: 1. When measured at a current of less than 100 mA/1 kHz

2. All specifications measured at  $10\sim35^{\circ}$ C, humidity at  $45\sim85\%$ , under standard atmospheric pressure, unless otherwise noted.

-1.5(2X)

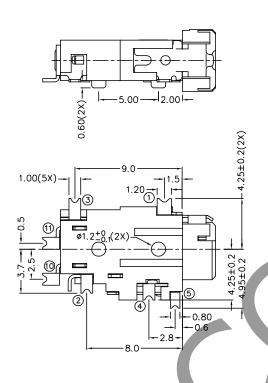
#### **MECHANICAL DRAWING**

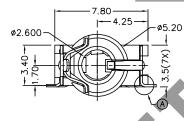
units: mm tolerance:  $X.X \pm 0.2 \text{ mm}$  $X.XX \pm 0.10 \text{ mm}$  $X.XXX \pm 0.050 \text{ mm}$ PCB: ±0.05 mm

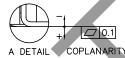


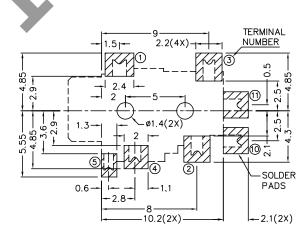
	MATERIAL	PLATING
terminal 1	copper alloy	silver
terminal 2	copper alloy	silver
terminal 3	copper alloy	silver
terminal 4	copper alloy	silver
terminal 5	copper alloy	silver
terminal 10	brass	silver
terminal 11	brass	silver
plastic	PA10T	

2.80

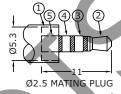








Recommended PCB Layout Top View



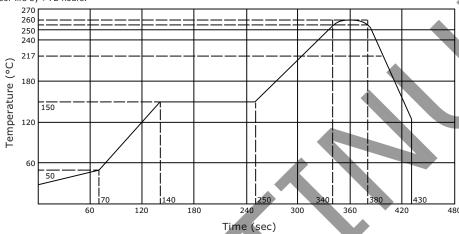
Model No.	SJ2-2555A-SMT	SJ2-2555D-SMT	
Schematic	0 1 0 5 0 4 0 3	0 1 0 5 0 4 0 3 0 11 0 10 0 2	
PIN			
1	outer ring	outer ring	
2	tip	tip	
3	ring 1	ring 1	
4	ring 2	ring 2	
5	sleeve	sleeve	
10	NP	tip switch	
11	NP	ring 1 switch	

#### **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.

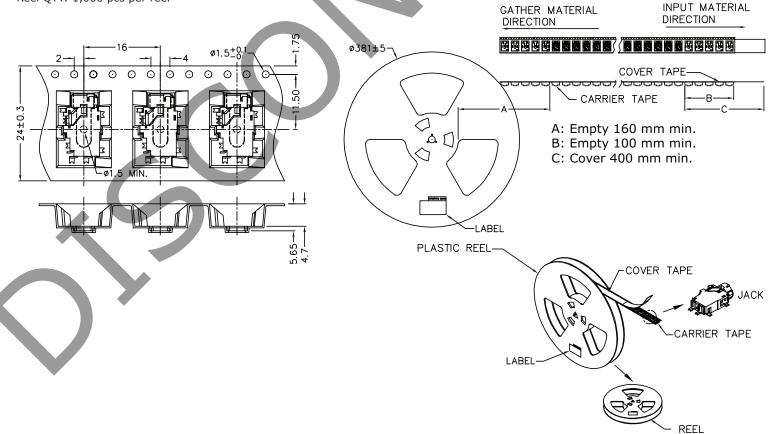


### **PACKAGING**

units: mm

Reel Size: Ø381 mm

Reel QTY: 1,000 pcs per reel



#### **REVISION HISTORY**

rev.	description	date
1.0	initial release	12/09/2016
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.



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