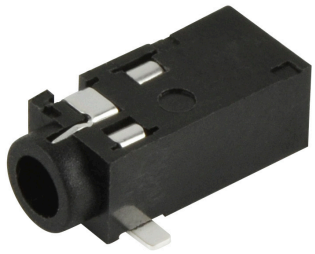
CUI DEVICES

SERIES: SJ-250X-SMT | **DESCRIPTION:** AUDIO JACK

FEATURES

- right angle
- low profile design
- reflow solder compatible
- surface mount



RoHS

PART NUMBER KEY

SJ - 250 X X - SMT - TR

Base Number	# Conductors:	Switch Options:	Package Style:	Packaging:
	3 = 3 4 = 4	A* = no switch	SMT = surface mount	TR = Tape & Reel

Notes: *Discontinued model SJ-2503A-SMT-TR

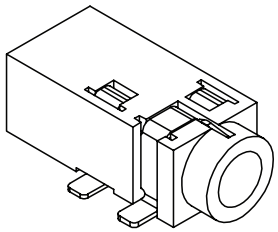
SPECIFICATIONS

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

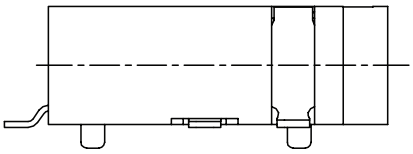
Note:
1. When measured at a current of less than 100 mA/1 kHz
2. All specifications measured at 10~35°C, humidity at 45~85%, under standard atmospheric pressure, unless otherwise noted.

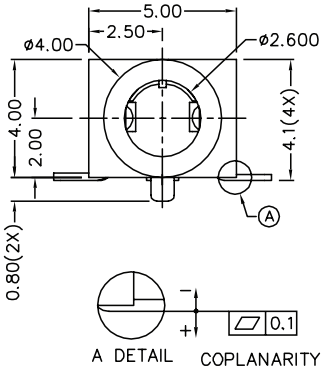
MECHANICAL DRAWING

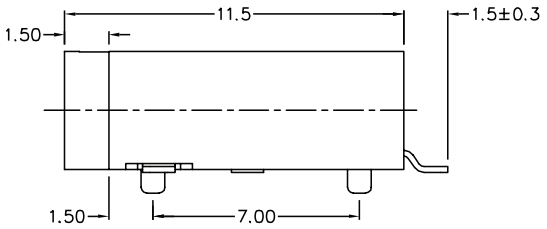
units: mm
tolerance:
X.X ±0.2 mm
X.XX ±0.10 mm
X.XXX ±0.050 mm
PCB: ±0.05 mm

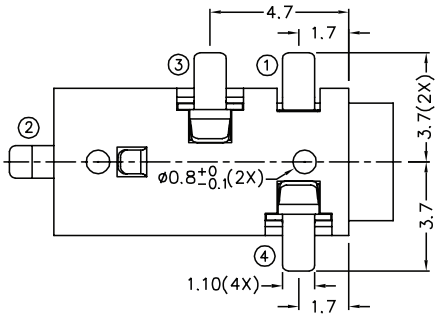


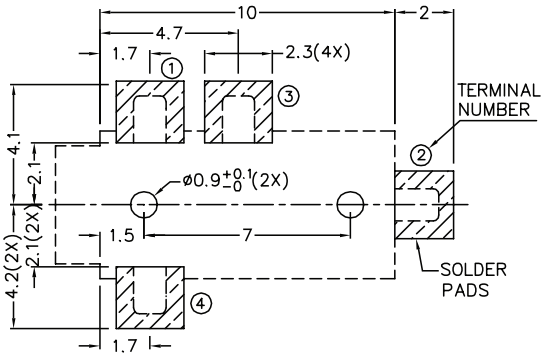
	MATERIAL	PLATING
terminal 1	copper alloy	silver
terminal 2	copper alloy	silver
terminal 3	copper alloy	silver
terminal 4	copper alloy	silver
plastic	PA10T	



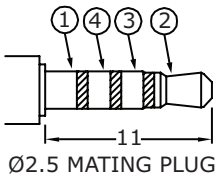




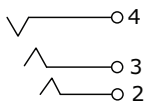
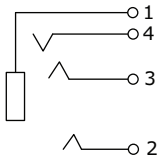




Recommended PCB Layout
Top View



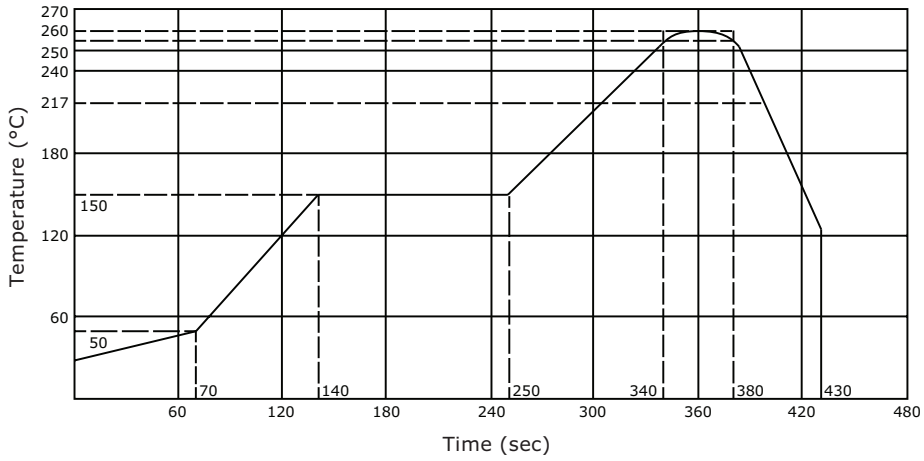
Ø2.5 MATING PLUG

Model No.	SJ-2503A-SMT	SJ-2504A-SMT
Schematic		
PIN		
1	NP	sleeve
2	tip	tip
3	ring 1	ring 1
4	ring 2	ring 2

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				

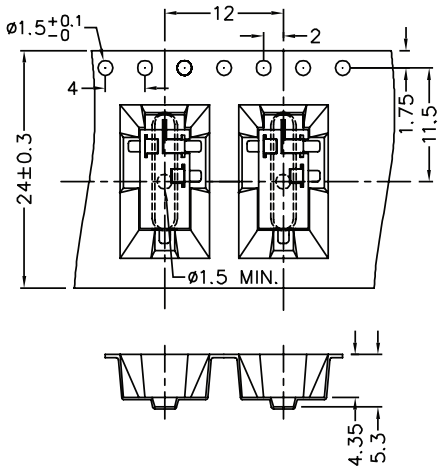
Note:
1. Must reflow solder within 72 hours from opening vacuum packaging at a temperature <30°C & relative humidity <60%.
2. When exceeding floor life by >72 hours.

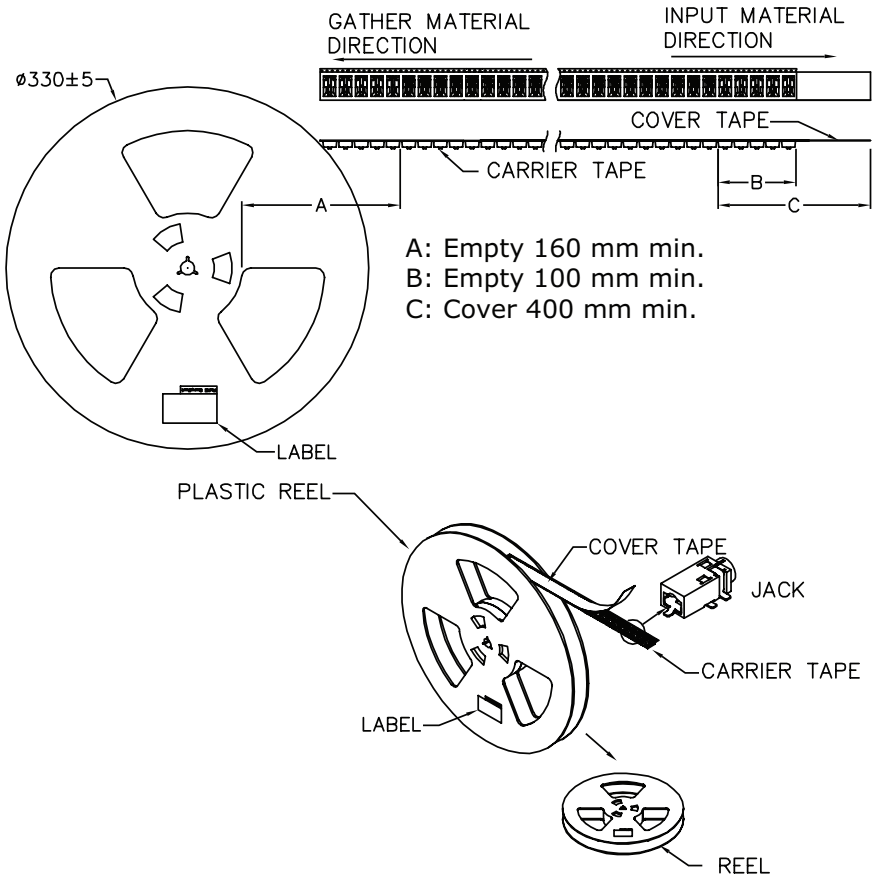


PACKAGING

units: mm

Reel Size: Ø330 mm
Reel QTY: 1,000 pcs per reel





REVISION HISTORY

rev.	description	date
1.0	initial release	12/01/2016
1.01	added storage and drying conditions	05/31/2017
1.04	brand update	10/04/2019
1.05	discontinued model SJ-2503A-SMT-TR; logo, datasheet style update	08/18/2022

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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