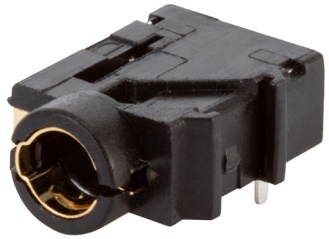
CUDEVICES

SERIES: SJ3-3509X | **DESCRIPTION:** AUDIO JACK

FEATURES

- 3.5 mm audio jack
- through hole
- tray packaging
- multiple switch variations



RoHS

PART NUMBER KEY

SJ3 - 3509 X X

- Base Number
- # Conductors:
  - 3[1] = 3
  - 4 = 4
- Switch Options:
  - A = no switch
  - B = tip switch
  - AG = isolated switch
  - BG = tip switch and isolated switch

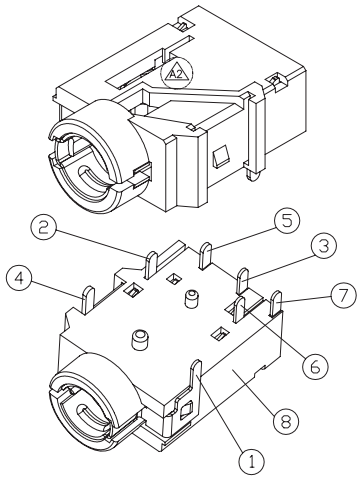
Note: 1. 3 conductor option only available with tip and isolated switch.

SPECIFICATIONS

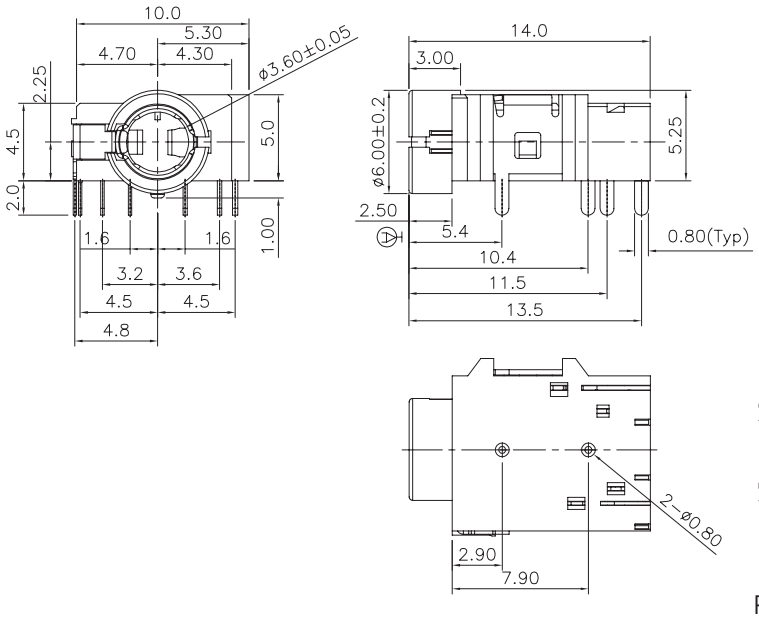
parameter	conditions/description	min	typ	max	units
rated input voltage			12		Vdc
rated input current				1	A
contact resistance				30	mΩ
insulation resistance	at 500 Vdc	100			MΩ
voltage withstand	for 1 minute			500	Vac
insertion/withdrawal force		0.3		3	kg
operating temperature		-25		85	°C
life			5,000		cycles
flammability rating	UL94V-0				
RoHS	yes				

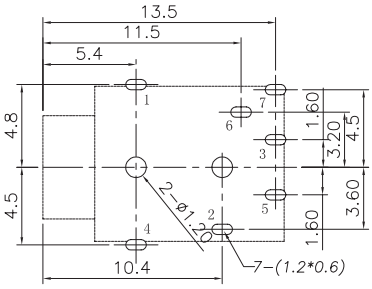
MECHANICAL DRAWING

units: mm
tolerance:
X.X ±0.30 mm
X.XX ±0.25 mm
X.XXX ±0.20 mm
PCB: ±0.05 mm
unless otherwise specified

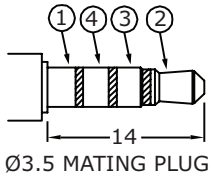


ITEM	DESCRIPTION	MATERIAL	PLATING/COLOR
1	terminal 1	C5191-H t=0.20	gold over nickel
2	terminal 2	C5210-EH t=0.25	silver over nickel
3	terminal 3	C5210-EH t=0.20	silver over nickel
4	terminal 4	C5210-EH t=0.30	silver over nickel
5	terminal 5	C2680-H t=0.25	silver over nickel
6	terminal 6	C2680-H t=0.20	silver over nickel
7	terminal 7	C5210-EH t=0.20	silver over nickel
8	housing	PBT (UL94V-0)	black

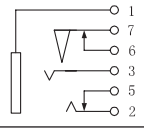
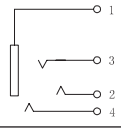
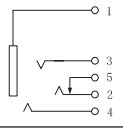
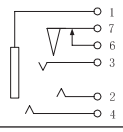
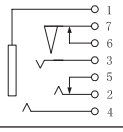




Recommended PCB Layout
Top View

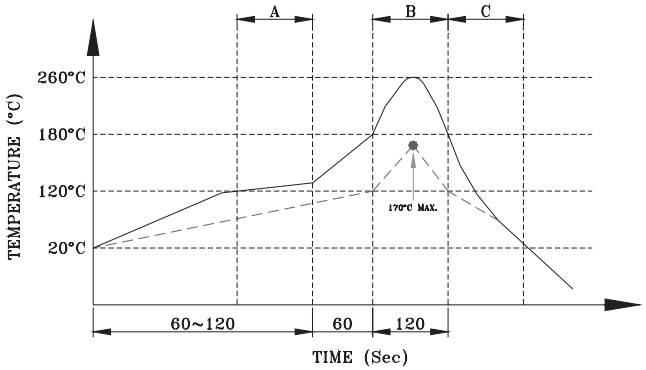


Ø3.5 MATING PLUG

Model No.	SJ3-35093BG	SJ3-35094A	SJ3-35094B	SJ3-35094AG	SJ3-35094BG
Schematic					
PIN					
1	sleeve	sleeve	sleeve	sleeve	sleeve
2	tip	tip	tip	tip	tip
3	ring 1	ring 1	ring 1	ring 1	ring 1
4	NP	ring 2	ring 2	ring 2	ring 2
5	tip switch	NP	tip switch	NP	tip switch
6	isolated ring switch (N-C)	NP	NP	isolated ring switch (N-C)	isolated ring switch (N-C)
7	isolated ring	NP	NP	isolated ring	isolated ring

SOLDERABILITY

parameter	conditions/description	min	typ	max	units
wave soldering	for max 5 seconds	255	260	265	°C



A. Preheating
B. Soldering
C. Cooling

——— Pin Temperature
– – – – Component Temperature

REVISION HISTORY

rev.	description	date
1.0	initial release	06/12/2024

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