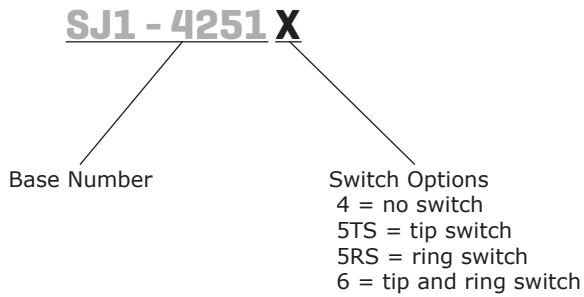# CUI INC®

SERIES: SJ1-4251 | **DESCRIPTION:** 2.5 MM AUDIO JACKS

FEATURES

• low profile design
• switch options include:
 – no switch
 – tip switch
 – ring switch
 – tip and ring switch

RoHS

PART NUMBER KEY

SJ1 - 4251 **X**

Base Number

Switch Options
4 = no switch
5TS = tip switch
5RS = ring switch
6 = tip and ring switch

SPECIFICATIONS

parameter	conditions/description	min	typ	max	units
rated input voltage			12		Vdc
rated input current				1	A
contact resistance	between terminal and mating plug			50	mΩ
	between terminal in a closed circuit*			30	mΩ
insulation resistance	at 500 Vdc	100			MΩ
voltage withstand	at 50/60Hz for 1 minute			500	Vac
insertion/withdrawl force		0.3		3	kg
terminal strength	any direction for 10 seconds			500	g
operating temperature		-25		85	°C
life			5,000		cycles

Notes: *When measured at a current of less than 100 mA / 1 kHz

SOLDERABILITY

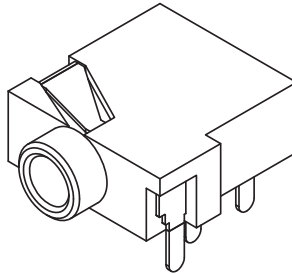| parameter	conditions/description	min	typ	max	units
wave soldering	dipped in solder pot for 5±0.5 seconds at	255	260	265	°C

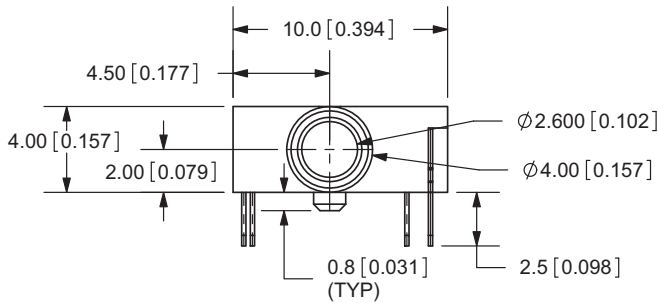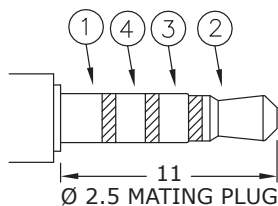# MECHANICAL DRAWING

units: mm[inches]

TOLERANCE:
X.X ±0.2mm
X.XX ±0.1mm
X.XXX ±0.05mm

	MATERIAL	PLATING
terminal 1	copper alloy	gold flash
terminal 2	copper alloy	gold flash
terminal 3	copper alloy	gold flash
terminal 4	copper alloy	gold flash
terminal 5	brass	gold flash
terminal 6	brass	gold flash
plastic	PA66	
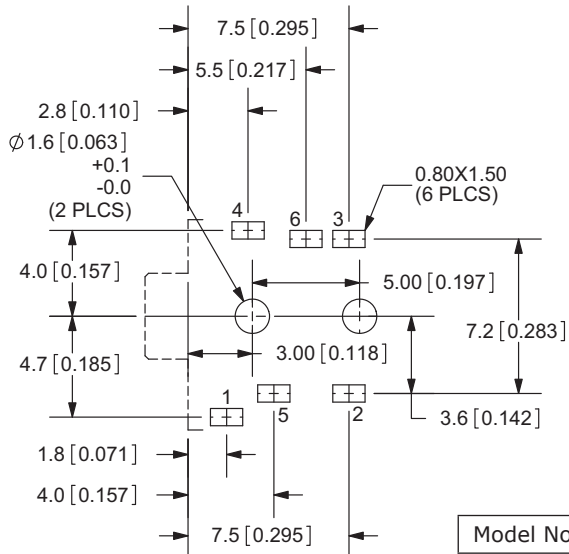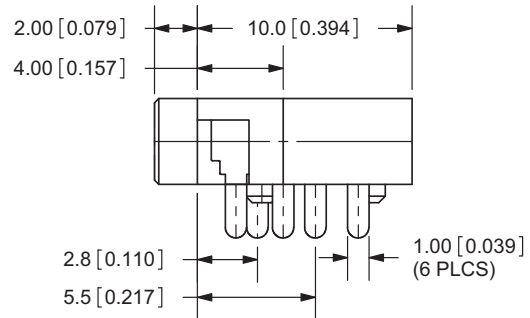
PCB LAYOUT
TOP VIEW

Ø 2.5 MATING PLUG
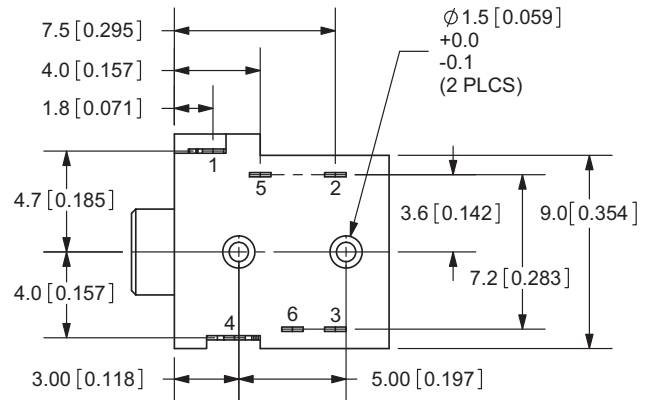
Model No.	SJ1-42514	SJ1-42515TS	SJ1-42515RS	SJ1-42516
Schematic				
PIN				
1	sleeve	sleeve	sleeve	sleeve
2	tip	tip	tip	tip
3	ring 1	ring 1	ring 1	ring 1
4	ring 2	ring 2	ring 2	ring 2
5	NP	tip switch	NP	tip switch
6	NP	NP	ring switch	ring switch

REVISION HISTORY

rev.	description	date
1.0	initial release	10/27/2005
1.01	new template applied	12/15/2011

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

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