


SERIES: SJ1-4251X | **DESCRIPTION:** AUDIO JACK

FEATURES

- low profile design
- switch options include:
 - no switch
 - tip switch
 - ring switch
 - tip and ring switch


PART NUMBER KEY
SJ1 - 4251 X

Base Number

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

SPECIFICATIONS

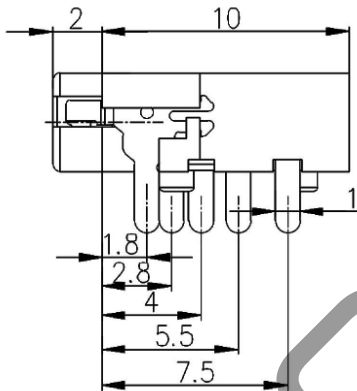
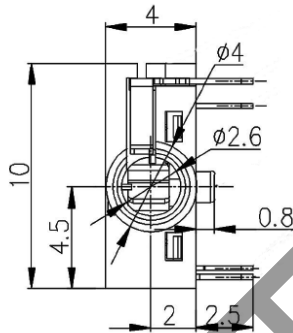
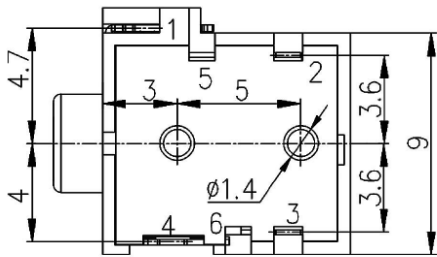
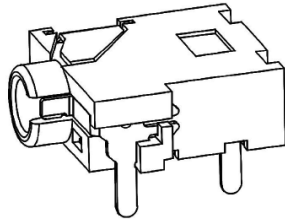
parameter	conditions/description	min	typ	max	units
rated input voltage			12		Vdc
rated input current				1	A
contact resistance	between terminal and mating plug between terminal in a closed circuit			50 30	mΩ mΩ
insulation resistance	at 500 Vdc	100			MΩ
voltage withstand	at 50/60Hz for 1 minute			500	Vac
insertion/withdrawal force		0.3		3	kg
operating temperature		-25		85	°C
life			5,000		cycles
flammability rating	UL94V-0				
RoHS	yes				

SOLDERABILITY

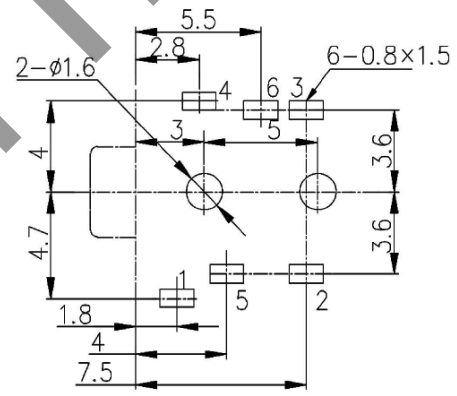
parameter	conditions/description	min	typ	max	units
wave soldering	dipped in solder pot for 5 ±0.5 seconds	255	260	265	°C

MECHANICAL DRAWING

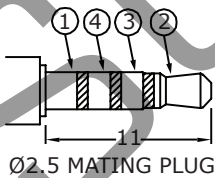
units: mm
 tolerance:
 X.X ±0.2 mm
 X.XX ±0.10 mm
 X.XXX ±0.050 mm
 unless otherwise specified



DESCRIPTION	MATERIAL	PLATING/COLOR
terminal 1	phosphorous bronze t=0.25	gold flash
terminal 2	phosphorous bronze t=0.20	gold flash
terminal 3	phosphorous bronze t=0.20	gold flash
terminal 4	phosphorous bronze t=0.25	gold flash
terminal 5	phosphorous bronze t=0.20	gold flash
terminal 6	phosphorous bronze t=0.20	gold flash
housing	PA66 [UL94V-0]	black



Recommended PCB Layout
Top View



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

REVISION HISTORY

rev.	description	date
1.0	initial release	10/27/2005
1.01	new template applied	12/15/2011
1.02	brand update	01/31/2020
1.03	discontinued model SJ1-42515RS; logo, datasheet style update	08/18/2022
1.04	product reengineered for improved manufacturability and production yield, see PCN for details	07/27/2023

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



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