

**MODEL:** SJ-3552B-MSMT-TR-67 | **DESCRIPTION:** AUDIO JACK**FEATURES**

- IP67 waterproof
- mid surface mount
- angle insertion hole
- reflow solder compatible

**SPECIFICATIONS**

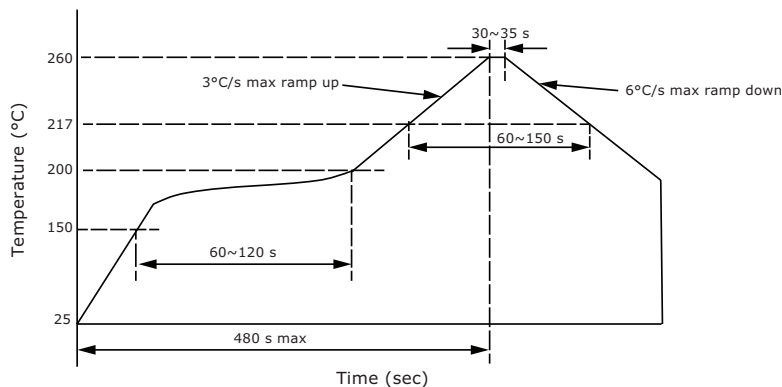
| parameter                       | conditions/description                                         | min | typ    | max      | units    |
|---------------------------------|----------------------------------------------------------------|-----|--------|----------|----------|
| rated input voltage             |                                                                |     | 12     |          | Vdc      |
| rated input current             |                                                                |     |        | 1        | A        |
| contact resistance <sup>1</sup> | between terminal and mating plug<br>between terminal and shunt |     |        | 50<br>50 | mΩ<br>mΩ |
| insulation resistance           | at 500 Vdc between adjacent contacts                           | 100 |        |          | MΩ       |
| voltage withstand               | for 1 minute between adjacent contacts                         |     |        | 250      | Vac      |
| insertion/withdrawal force      |                                                                | 0.4 |        | 3        | kgf      |
| operating temperature           |                                                                | -30 |        | 85       | °C       |
| storage temperature             |                                                                | -40 |        | 85       | °C       |
| life                            | at a rate of 500 cycles/hour                                   |     | 10,000 |          | cycles   |
| flammability rating             | UL94V-0                                                        |     |        |          |          |
| RoHS                            | yes                                                            |     |        |          |          |
| IP level                        | IP67                                                           |     |        |          |          |

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.

**SOLDERABILITY**

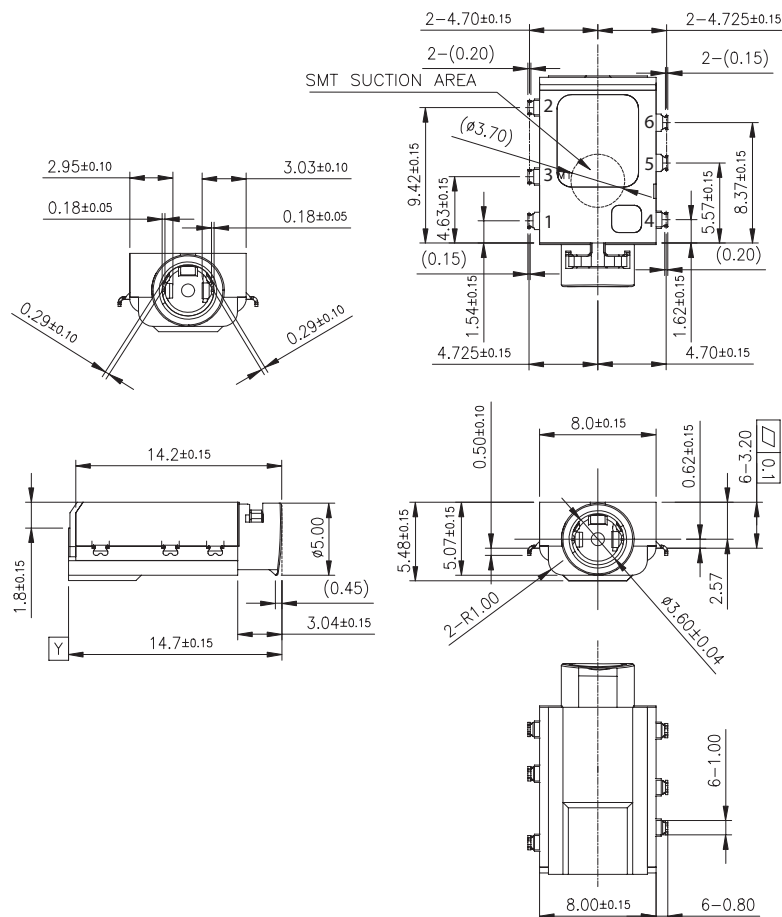
| parameter                     | conditions/description    | min | typ | max | units |
|-------------------------------|---------------------------|-----|-----|-----|-------|
| reel storage                  | at relative humidity <60% |     |     | 30  | °C    |
| reflow soldering <sup>3</sup> | see reflow profile        |     | 260 | 270 | °C    |

Note: 3. It is recommended to reflow solder within 72 hours from opening vacuum packaging at a temperature <30°C & relative humidity <60%.

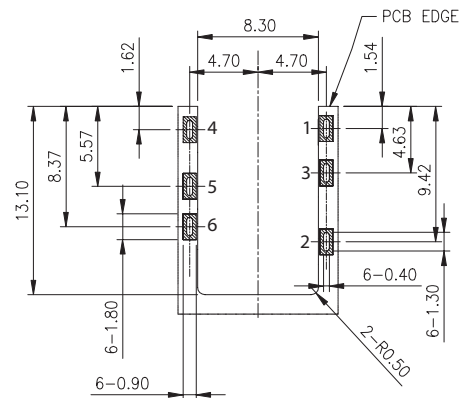


## MECHANICAL DRAWING

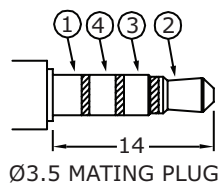
units: mm  
 tolerance:  
 X.X  $\pm 0.3$  mm  
 X.XX  $\pm 0.20$  mm  
 PCB:  $\pm 0.05$  mm



|                 | MATERIAL              | PLATING                                       |
|-----------------|-----------------------|-----------------------------------------------|
| housing 2       | PA-9T                 | black                                         |
| housing 1       | PA-9T                 | black                                         |
| assist pin      | stainless steel       |                                               |
| GND contact     | PBS                   |                                               |
| ring 2 contact  | PBS                   |                                               |
| tip contact     | titanium copper alloy | contact: $5 \mu$ " gold<br>others: gold flash |
| term. 5 contact | PBS                   |                                               |
| term. 6 contact | PBS                   |                                               |
| ring 1 contact  | PBS                   |                                               |
| o-ring (OR-50)  | silicone              | black                                         |

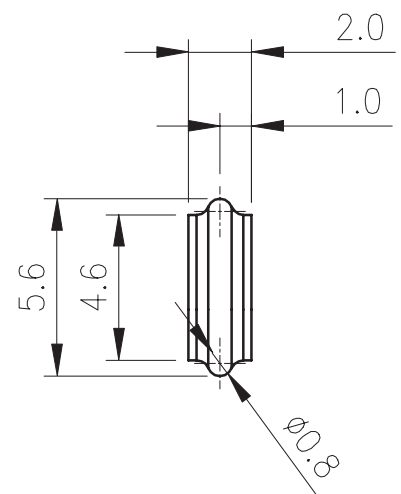
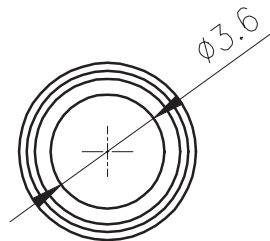


Recommended PCB Layout  
Top View

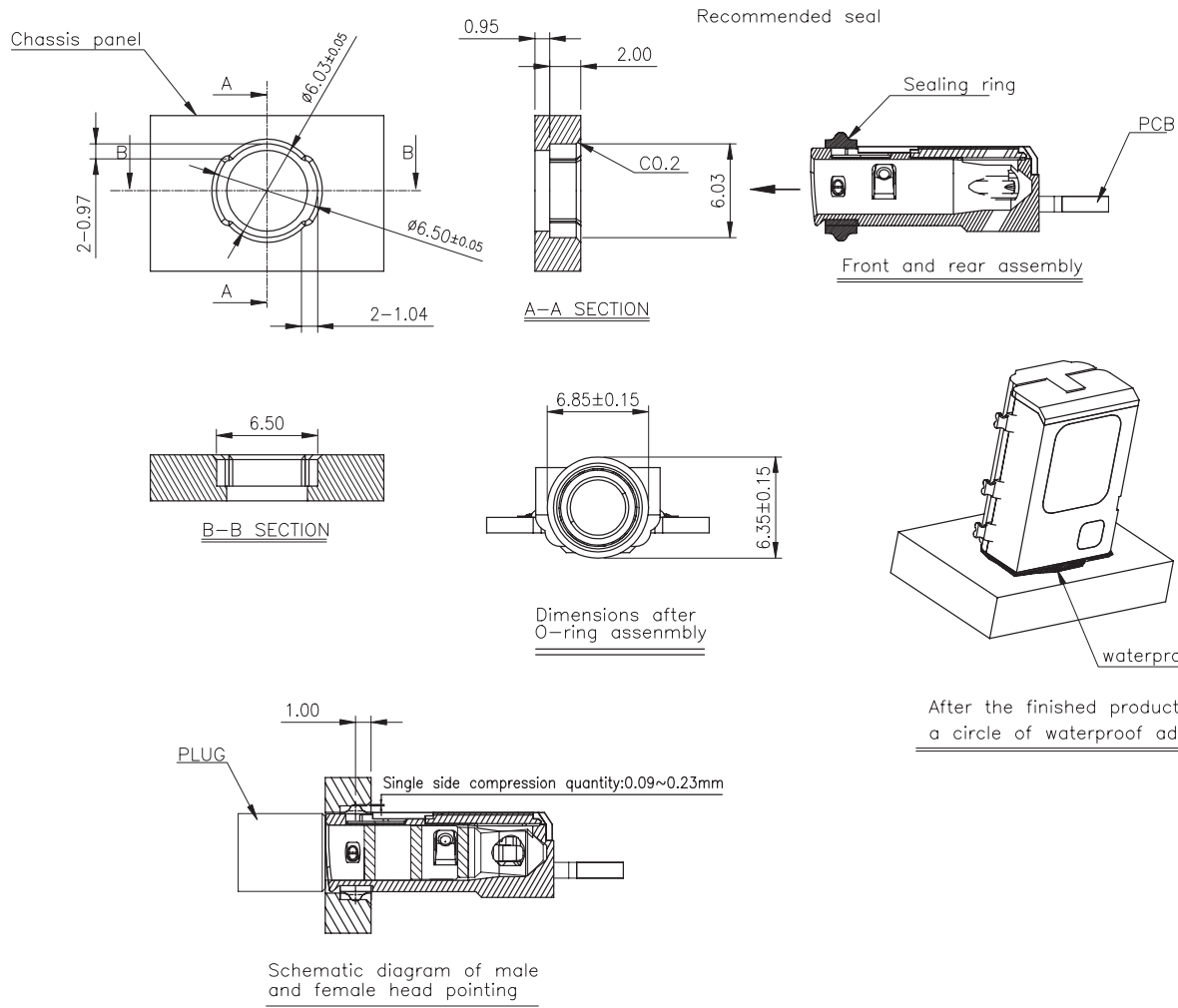


|           |                           |
|-----------|---------------------------|
| Schematic |                           |
| PIN       |                           |
| 1         | sleeve                    |
| 2         | tip                       |
| 3         | ring 1                    |
| 4         | ring 2                    |
| 5         | isolated tip              |
| 6         | isolated tip switch (N-O) |

O-ring (P/N: OR-50)



## ASSEMBLY REFERENCE

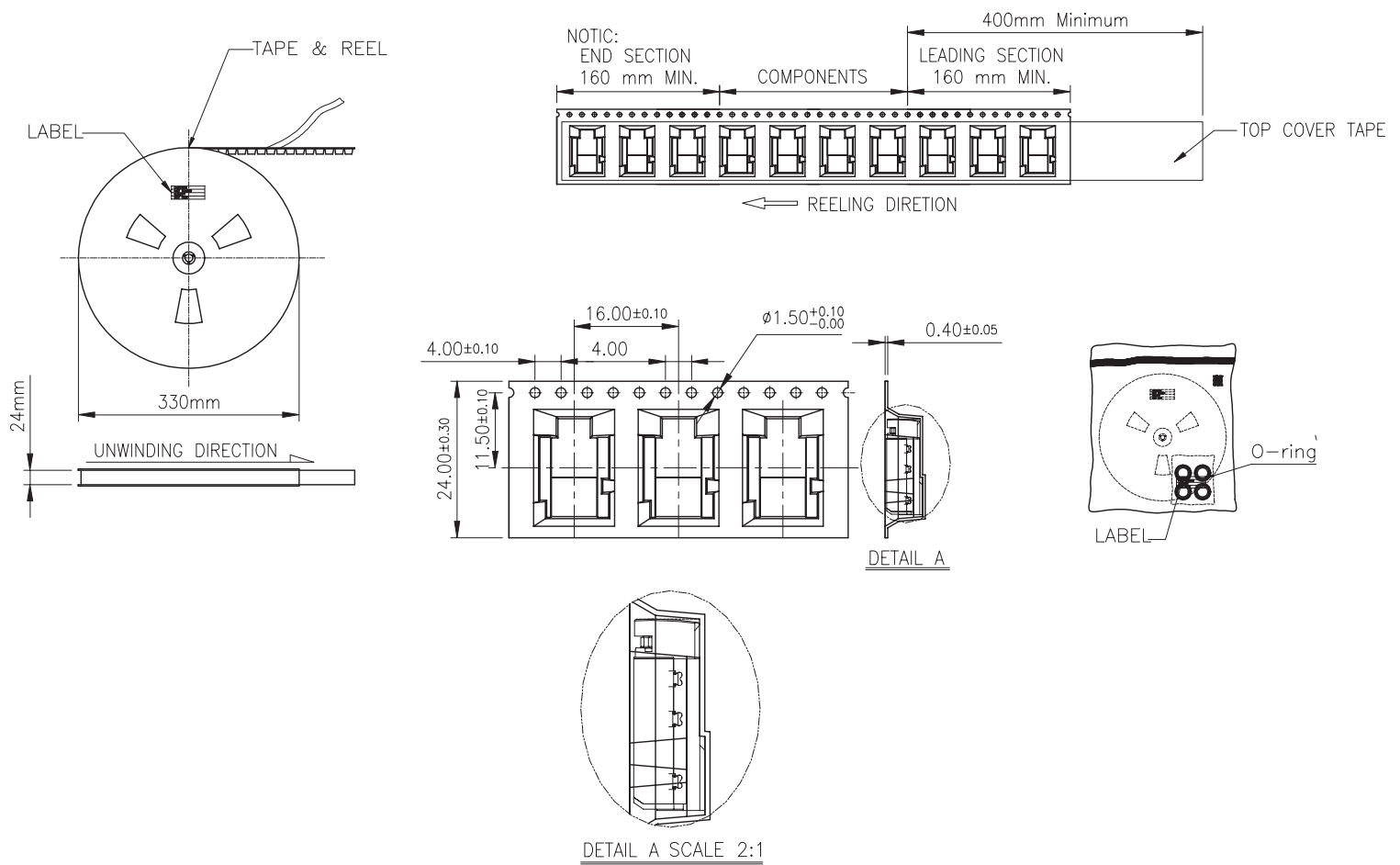


## PACKAGING

units: mm

Reel Size: Ø330 mm

Reel QTY: 600 pcs per reel



## REVISION HISTORY

| rev. | description                                                         | date       |
|------|---------------------------------------------------------------------|------------|
| 1.0  | initial release                                                     | 12/05/2018 |
| 1.01 | changed GND contact plating to be gold, moved o-rings to vacuum bag | 08/08/2019 |
| 1.02 | brand update                                                        | 10/08/2019 |
| 1.03 | added o-ring p/n                                                    | 04/07/2022 |

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

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