

**SERIES:** SJ1-352XNG | **DESCRIPTION:** AUDIO JACK

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**FEATURES**

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

**PART NUMBER KEY**

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Note: 1. Tip and ring switch model only.

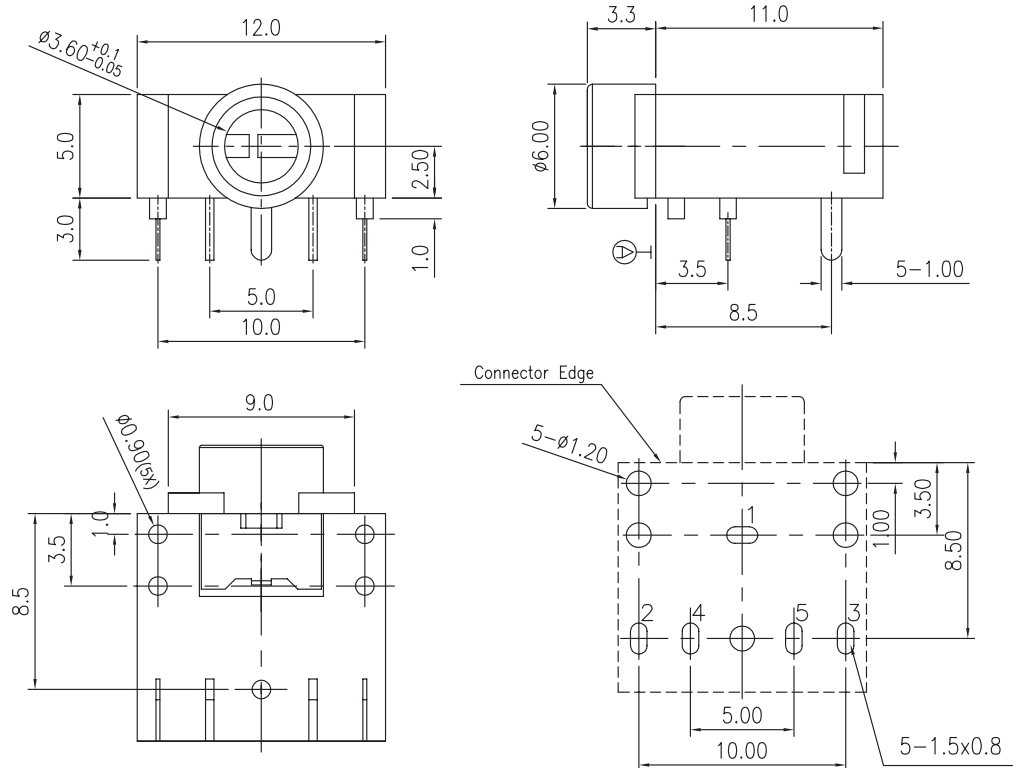
**SPECIFICATIONS**

| parameter                  | conditions/description               | min | typ   | max | units  |
|----------------------------|--------------------------------------|-----|-------|-----|--------|
| rated input voltage        |                                      |     | 12    |     | Vdc    |
| rated input current        |                                      |     |       | 1   | A      |
| contact resistance         | between terminal and mating plug     |     |       | 100 | mΩ     |
|                            | between terminal in a closed circuit |     |       | 50  | 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                                  |     |       |     |        |

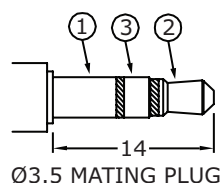
## MECHANICAL DRAWING

units: mm  
tolerance:  
X.X  $\pm 0.3$  mm  
X.XX  $\pm 0.25$  mm  
X.XXX  $\pm 0.20$  mm  
PCB:  $\pm 0.05$  mm  
unless otherwise specified

| DESCRIPTION | MATERIAL               | PLATING/COLOR      |
|-------------|------------------------|--------------------|
| terminal 1  | copper alloy t=0.20    | silver over nickel |
| terminal 2  | stainless steel t=0.20 | silver over nickel |
| terminal 3  | stainless steel t=0.20 | silver over nickel |
| terminal 4  | brass t=0.40           | silver over nickel |
| terminal 5  | brass t=0.40           | silver over nickel |
| bushing     | brass                  | nickel             |
| housing     | PBT (UL94V-0)          | see color options  |



Recommended PCB Layout  
Top View



| Model No. | SJ1-3523NG | SJ1-3524NG | SJ1-3525NG  |
|-----------|------------|------------|-------------|
| Schematic |            |            |             |
| PIN       |            |            |             |
| 1         | sleeve     | sleeve     | sleeve      |
| 2         | tip        | tip        | tip         |
| 3         | ring       | ring       | ring        |
| 4         | NP         | tip switch | tip switch  |
| 5         | NP         | NP         | ring switch |

## SOLDERABILITY

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



## REVISION HISTORY

| rev. | description   | date       |
|------|---|------------|
| 1.0  | initial release   | 10/21/2005 |
| 1.01 | new template applied  | 01/25/2012 |
| 1.02 | changed terminal plating to silver  | 02/13/2019 |
| 1.03 | brand update  | 10/10/2019 |
| 1.04 | product reengineered for improved manufacturability and production yield, see PCN for details | 03/30/2023 |

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



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