

**MODEL:** PJ-039BH | **DESCRIPTION:** DC POWER JACK

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**FEATURES**

- 2.5 mm center pin
- 5.0 A rating
- vertical orientation
- panel mount with tabs and 1.6 mm screw holes

**SPECIFICATIONS**

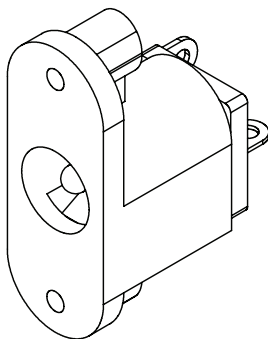
| parameter                  | conditions/description       | min | typ   | max | units  |
|----------------------------|------------------------------|-----|-------|-----|--------|
| rated input voltage        |                              |     | 24    |     | Vdc    |
| rated input current        |                              |     |       | 5.0 | 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     |
| terminal strength          | any direction for 10 seconds |     |       | 500 | g      |
| operating temperature      |                              | -25 |       | 85  | °C     |
| life                       |                              |     | 5,000 |     | cycles |
| flammability rating        | UL94V-0                      |     |       |     |        |
| RoHS                       | yes                          |     |       |     |        |

**SOLDERABILITY**

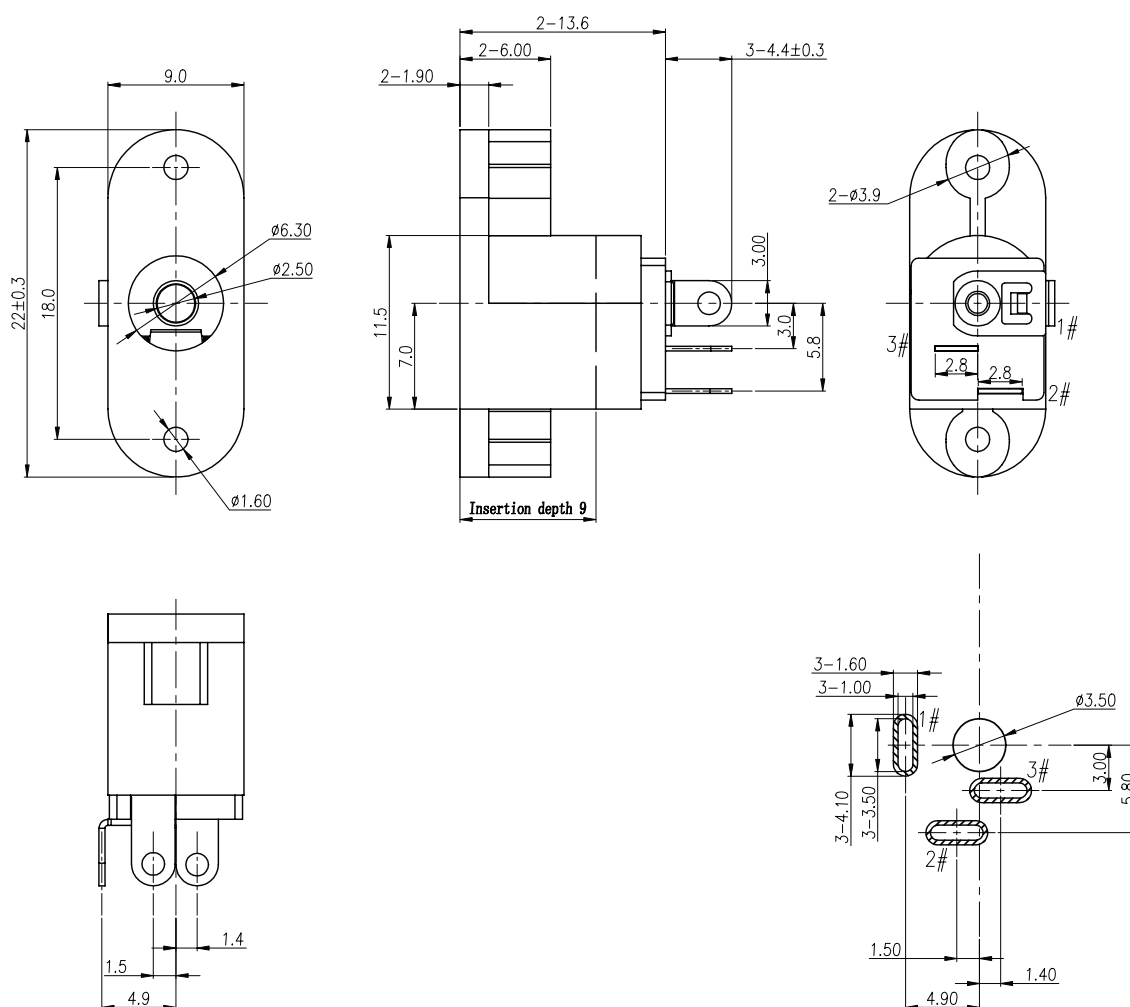
| parameter      | conditions/description                 | min | typ | max | units |
|----------------|----------------------------------------|-----|-----|-----|-------|
| wave soldering | dipped in solder pot for 5 ± 5 seconds | 255 | 260 | 265 | °C    |

## MECHANICAL DRAWING

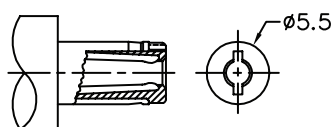
units: mm  
 tolerance:  
 X,  $\pm 0.50$  mm  
 X.X  $\pm 0.30$  mm  
 X.XX  $\pm 0.20$  mm  
 PCB:  $\pm 0.05$  mm  
 unless otherwise specified



| DESCRIPTION | MATERIAL      | PLATING/COLOR |
|-------------|---------------|---------------|
| center pin  | copper        | nickel        |
| terminal 1  | brass         | silver        |
| terminal 2  | copper alloy  | silver        |
| terminal 3  | brass         | silver        |
| housing     | PBT [UL94V-0] | black         |



Recommended PCB Layout  
Top View



MATING PLUG  
Jack Insertion Depth: 9.0 mm

|            |          |
|------------|----------|
| Schematic  |          |
| Model      | PJ-039BH |
| Center Pin | Ø2.5 mm  |

## REVISION HISTORY

| rev. | description                                                                                   | date       |
|------|-----------------------------------------------------------------------------------------------|------------|
| 1.0  | initial release                                                                               | 07/30/2007 |
| 1.01 | applied new spec template                                                                     | 09/12/2013 |
| 1.02 | increased voltage rating                                                                      | 04/08/2016 |
| 1.03 | brand update                                                                                  | 11/06/2019 |
| 1.04 | modified housing mold                                                                         | 09/24/2020 |
| 1.05 | logo, datasheet style update                                                                  | 08/05/2022 |
| 1.06 | product reengineered for improved manufacturability and production yield, see PCN for details | 09/29/2023 |

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



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