



MODEL: PJ-090H | **DESCRIPTION:** DC POWER JACK

FEATURES

- 1.65 mm center pin
- 5 A rating
- shielded
- through hole
- vertical orientation
- 1 switch



SPECIFICATIONS

| parameter | conditions/description | min | typ | max | units |
|---------------------------------|--|-----|-------|----------|----------|
| rated input voltage | | | 24 | | Vdc |
| rated input current | | | | 5.0 | A |
| contact resistance ¹ | between terminal and mating plug between terminal in a closed circuit | | | 50 30 | mΩ mΩ |
| insulation resistance | at 500 Vdc between adjacent contacts | 100 | | | MΩ |
| voltage withstand | for 1 minute, 0.5 mA between adjacent contacts | | | 500 | Vac |
| insertion/withdrawal force | | 0.3 | | 3 | kg |
| operating temperature | | -25 | | 85 | °C |
| life | at a rate of 24 cycles/minute | | 5,000 | | cycles |
| flammability rating | UL94V-0 | | | | |
| RoHS | yes | | | | |

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

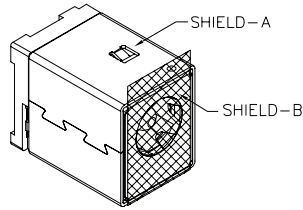
| parameter | conditions/description | min | typ | max | units |
|--------------------------------|--|-----|-----|-----|-------|
| reel storage | at relative humidity <80% | | | 40 | °C |
| reflow soldering ³ | see reflow profile | 255 | 260 | 265 | °C |
| drying conditions ⁴ | parts in reel: bake at 40°C ±5°C for 72 hours parts removed from reel: bake at 40°C ±5°C for 10 hours | | | | |

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

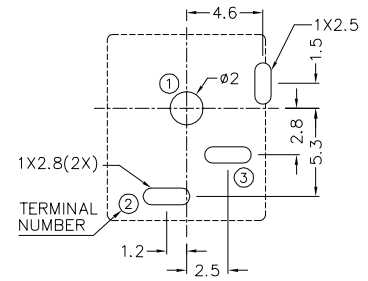
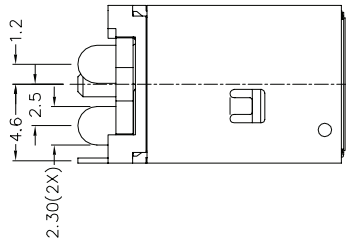
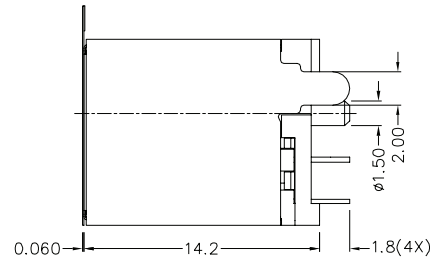
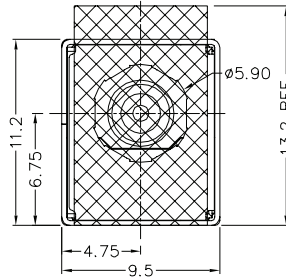
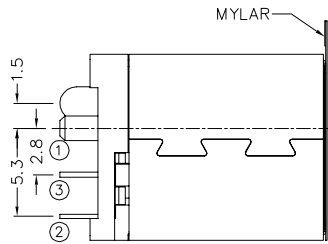


MECHANICAL DRAWING

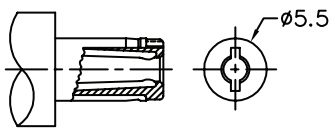
units: mm
 tolerance:
 X.X ±0.2 mm
 X.XX ±0.10 mm
 X.XXX ±0.050 mm
 PCB: ±0.05 mm



| | MATERIAL | PLATING |
|------------|-----------------|---------|
| center pin | brass | silver |
| terminal 1 | brass | silver |
| terminal 2 | copper alloy | silver |
| terminal 3 | brass | silver |
| shield A | brass | nickel |
| shield B | stainless steel | |
| mylar | polymide | |
| insulator | PA10T | |



Recommended PCB Layout Top View



MATING PLUG
 Jack Insertion Depth: 9.45 mm

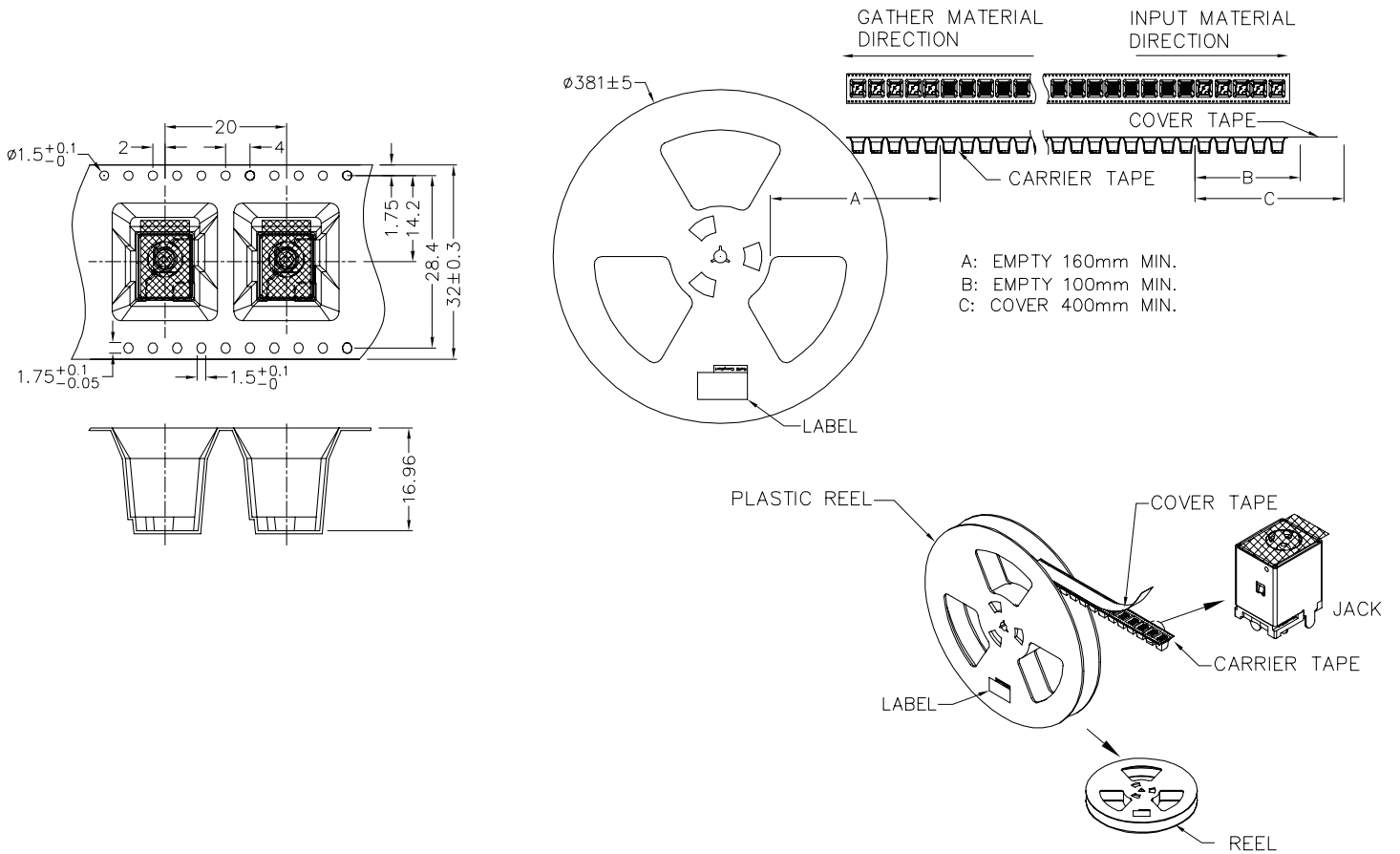
| | |
|------------|----------|
| SCHEMATIC | |
| Model | PJ-090H |
| Center Pin | Ø1.65 mm |

PACKAGING

units: mm

Reel Size: $\varnothing 381$ mm

Reel QTY: 200 pcs per reel



REVISION HISTORY

| rev. | description | date |
|------|-----------------|------------|
| 1.0 | initial release | 12/13/2018 |

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



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