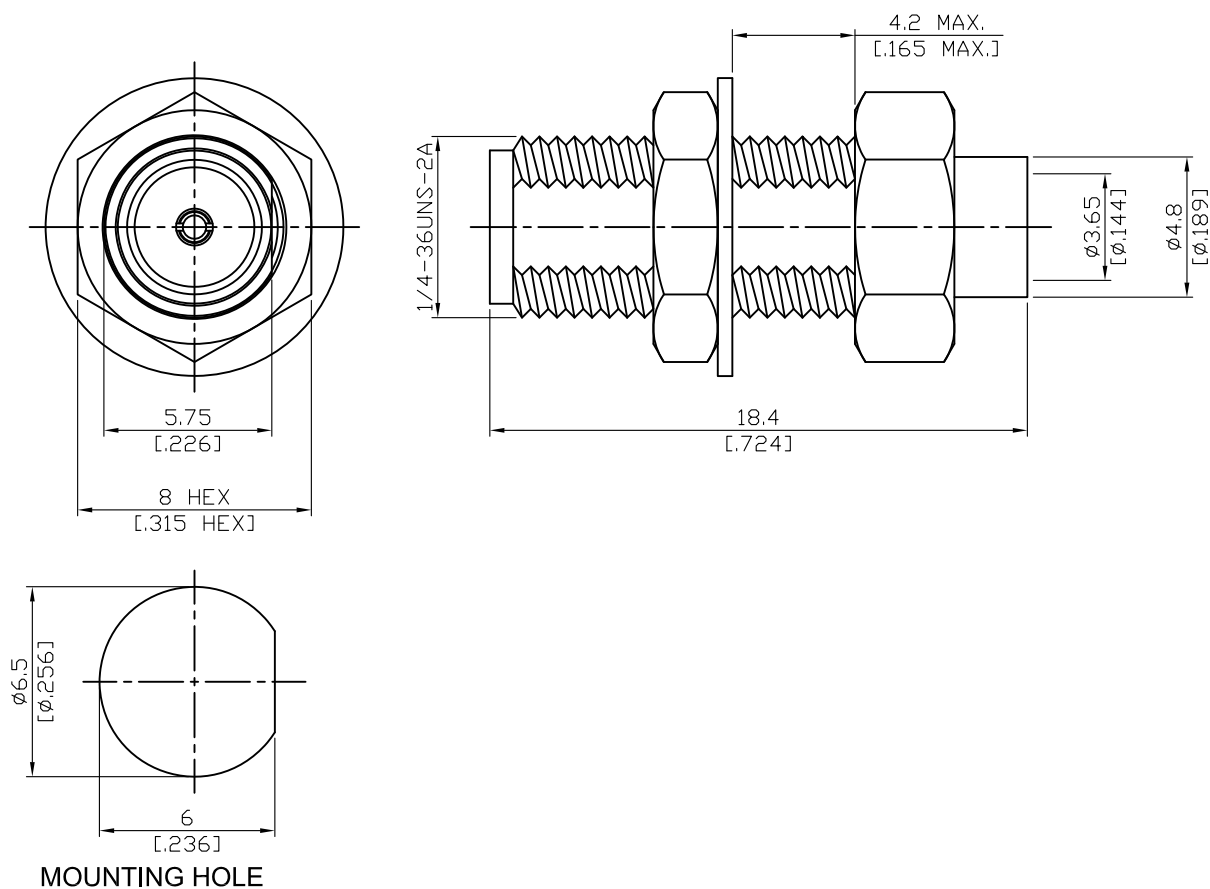


SMA8300LL-0141

SMA Jack Solder Bulkhead For RG402  
18GHz VSWR 1.2

50Ω



| Parts       | Material         | Plating ( Micro-inch )                                |
|-------------|------------------|-------------------------------------------------------|
| Hex Nut     | Brass            | Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20 |
| Washer      | Brass            | Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20 |
| Contact Pin | Beryllium Copper | Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20 |
| Barrel      | Brass            | Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20 |
| Insulator   | Teflon           |                                                       |
| Body        | Brass            | Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20 |

Suitable Cables: .141 Semi-Rigid, .141 Formable, RG402

This part number complies with RoHS.

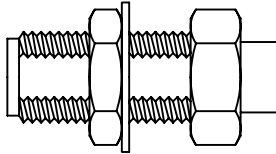
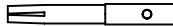
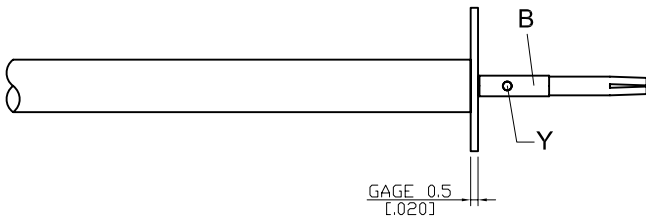
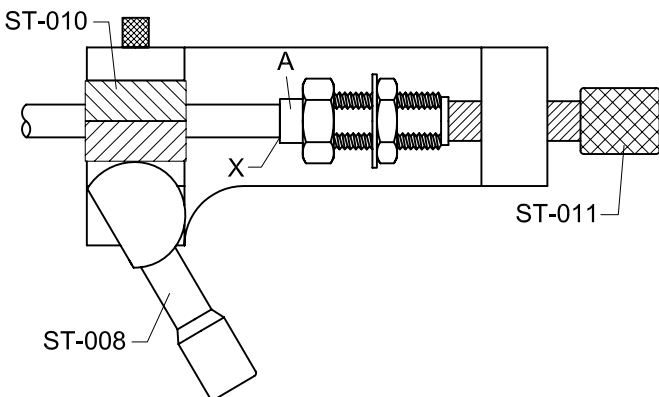
Notice: JYEBAO reserves the right to make modifications deemed appropriate.

| SMA                                                                                                                                                                                                                                                                                                                                                                                                                                                        | SMA8300LL-0141 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| <b>Interface</b><br>MIL-STD-348B<br>Mechanically compatible with 2.92 & 3.5                                                                                                                                                                                                                                                                                                                                                                                |                |
| <b>Electrical Data</b><br>Impedance 50Ω<br>Frequency range DC to 18GHz<br>VSWR $\leq 1.2$ (DC to 18GHz)<br>Insertion loss $\leq 0.04 \times \sqrt{f(\text{GHz})}$ dB<br>Insulation resistance $\geq 5000\text{M}\Omega$<br>Contact resistance inner conductor $\leq 3\text{m}\Omega$<br>Contact resistance outer conductor $\leq 2\text{m}\Omega$<br>Dielectric withstanding voltage (at sea level) 1500 V rms<br>Working voltage (at sea level) 500 V rms |                |
| <b>Mechanical Data</b><br>Recommended coupling nut torque 4 inch lbs<br>Coupling proof torque 5.3 inch lbs<br>Coupling nut retention force $\geq 60.7$ lbs<br>Contact Captivation-axial $\geq 6.1$ lbs<br>Durability (mating) $\geq 100$                                                                                                                                                                                                                   |                |
| <b>Environmental Data</b><br>Temperature range -65°C to +165°C<br>Thermal shock MIL-STD-202, Method 107, Condition B<br>Moisture resistance MIL-STD-202, Method 106<br>Corrosion MIL-STD-202, Method 101, Condition B<br>RoHS Compliant                                                                                                                                                                                                                    |                |
| <b>Tooling</b><br>Soldering fixture ST-008<br>Insert for .141 semi-rigid cable ST-010<br>Locator tool ST-011<br>Soldering gauge ST-0.5                                                                                                                                                                                                                                                                                                                     |                |

Notice: JYEBAO reserves the right to make modifications deemed appropriate.

# JYE BAO CO., LTD.

## CABLE ASSEMBLY INSTRUCTION

|                                                                                                                     |  |                                                                                                                                    |            |         |   |
|---------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------|------------|---------|---|
| SMA8300LL-0141                                                                                                      |  | DATE                                                                                                                               | 2016/07/20 | REV     | — |
| A                                                                                                                   |  | B                                                                                                                                  |            |         |   |
|                                    |  |                                                  |            |         |   |
| BODY                                                                                                                |  | CONTACT PIN                                                                                                                        |            |         |   |
| DIAGRAM                                                                                                             |  | ASSEMBLY INSTRUCTION                                                                                                               |            |         |   |
|                                    |  | Step 1: STRIP AS SHOWN.                                                                                                            |            |         |   |
|                                   |  | Step 2: PUT 0.5 MM GAGE ST-0.5 IN PLACE, INSERT CABLE'S CENTER CONDUCTOR INTO CENTER PIN " B " AND SOLDER IN " Y ".                |            |         |   |
|                                   |  | Step 3: USE SOLDERING FIXTURE ST-008 " , INSERT TOOL " ST-010 " AND LOCATOR TOOL " ST-011 " TO FIX THE CONNECTOR. SOLDER IN " X ". |            |         |   |
| This part number complies with RoHS.<br>Notice: JYEBAO reserves the right to make modifications deemed appropriate. |  |                                                                                                                                    |            |         |   |
| APPROVED                                                                                                            |  | CHECKED                                                                                                                            |            | DRAWING |   |
|                                                                                                                     |  |                                                                                                                                    |            | Albert  |   |