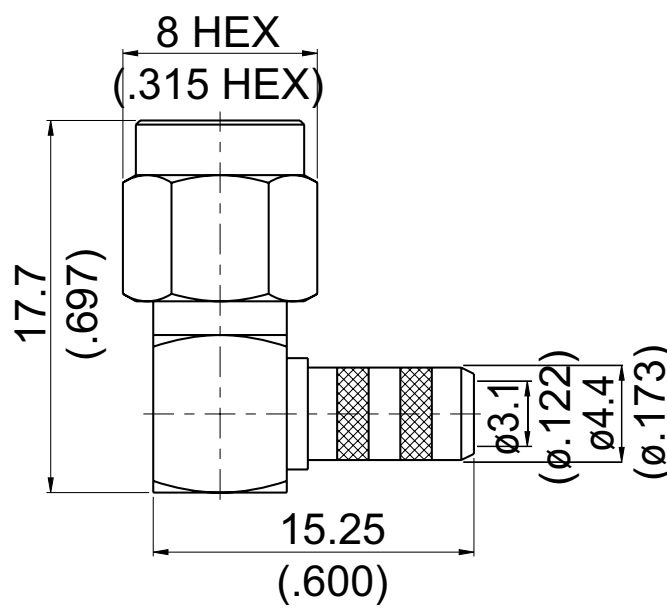


| SMA3100-9223                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | SMA Plug Crimp Right Angle<br>For RG223; 11GHz VSWR 1.2 |                                                       | 50Ω |       |          |                      |  |         |        |                                                       |  |       |       |                                                       |  |               |                  |                                          |  |        |         |  |  |             |       |                                                       |  |           |        |  |  |        |       |                                                       |  |      |       |                                                       |  |              |       |                                                       |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|-------------------------------------------------------|-----|-------|----------|----------------------|--|---------|--------|-------------------------------------------------------|--|-------|-------|-------------------------------------------------------|--|---------------|------------------|------------------------------------------|--|--------|---------|--|--|-------------|-------|-------------------------------------------------------|--|-----------|--------|--|--|--------|-------|-------------------------------------------------------|--|------|-------|-------------------------------------------------------|--|--------------|-------|-------------------------------------------------------|--|
| <div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                         |                                                       |     |       |          |                      |  |         |        |                                                       |  |       |       |                                                       |  |               |                  |                                          |  |        |         |  |  |             |       |                                                       |  |           |        |  |  |        |       |                                                       |  |      |       |                                                       |  |              |       |                                                       |  |
| <table><tr><th>Parts</th><th>Material</th><th colspan="2">Plating (Micro-inch)</th></tr><tr><td>Ferrule</td><td>Copper</td><td colspan="2">Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20</td></tr><tr><td>Cover</td><td>Brass</td><td colspan="2">Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20</td></tr><tr><td>Renbrock Ring</td><td>Beryllium Copper</td><td colspan="2">Tin-Zinc-Copper-Alloy 100 Over Copper 50</td></tr><tr><td>Gasket</td><td>Silicon</td><td colspan="2"></td></tr><tr><td>Contact Pin</td><td>Brass</td><td colspan="2">Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20</td></tr><tr><td>Insulator</td><td>Teflon</td><td colspan="2"></td></tr><tr><td>Barrel</td><td>Brass</td><td colspan="2">Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20</td></tr><tr><td>Body</td><td>Brass</td><td colspan="2">Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20</td></tr><tr><td>Coupling Nut</td><td>Brass</td><td colspan="2">Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20</td></tr></table> |                                                         |                                                       |     | Parts | Material | Plating (Micro-inch) |  | Ferrule | Copper | Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20 |  | Cover | Brass | Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20 |  | Renbrock Ring | Beryllium Copper | Tin-Zinc-Copper-Alloy 100 Over Copper 50 |  | Gasket | Silicon |  |  | Contact Pin | Brass | Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20 |  | Insulator | Teflon |  |  | Barrel | Brass | Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20 |  | Body | Brass | Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20 |  | Coupling Nut | Brass | Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20 |  |
| Parts                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Material                                                | Plating (Micro-inch)                                  |     |       |          |                      |  |         |        |                                                       |  |       |       |                                                       |  |               |                  |                                          |  |        |         |  |  |             |       |                                                       |  |           |        |  |  |        |       |                                                       |  |      |       |                                                       |  |              |       |                                                       |  |
| Ferrule                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Copper                                                  | Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20 |     |       |          |                      |  |         |        |                                                       |  |       |       |                                                       |  |               |                  |                                          |  |        |         |  |  |             |       |                                                       |  |           |        |  |  |        |       |                                                       |  |      |       |                                                       |  |              |       |                                                       |  |
| Cover                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Brass                                                   | Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20 |     |       |          |                      |  |         |        |                                                       |  |       |       |                                                       |  |               |                  |                                          |  |        |         |  |  |             |       |                                                       |  |           |        |  |  |        |       |                                                       |  |      |       |                                                       |  |              |       |                                                       |  |
| Renbrock Ring                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Beryllium Copper                                        | Tin-Zinc-Copper-Alloy 100 Over Copper 50              |     |       |          |                      |  |         |        |                                                       |  |       |       |                                                       |  |               |                  |                                          |  |        |         |  |  |             |       |                                                       |  |           |        |  |  |        |       |                                                       |  |      |       |                                                       |  |              |       |                                                       |  |
| Gasket                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Silicon                                                 |                                                       |     |       |          |                      |  |         |        |                                                       |  |       |       |                                                       |  |               |                  |                                          |  |        |         |  |  |             |       |                                                       |  |           |        |  |  |        |       |                                                       |  |      |       |                                                       |  |              |       |                                                       |  |
| Contact Pin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Brass                                                   | Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20 |     |       |          |                      |  |         |        |                                                       |  |       |       |                                                       |  |               |                  |                                          |  |        |         |  |  |             |       |                                                       |  |           |        |  |  |        |       |                                                       |  |      |       |                                                       |  |              |       |                                                       |  |
| Insulator                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Teflon                                                  |                                                       |     |       |          |                      |  |         |        |                                                       |  |       |       |                                                       |  |               |                  |                                          |  |        |         |  |  |             |       |                                                       |  |           |        |  |  |        |       |                                                       |  |      |       |                                                       |  |              |       |                                                       |  |
| Barrel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Brass                                                   | Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20 |     |       |          |                      |  |         |        |                                                       |  |       |       |                                                       |  |               |                  |                                          |  |        |         |  |  |             |       |                                                       |  |           |        |  |  |        |       |                                                       |  |      |       |                                                       |  |              |       |                                                       |  |
| Body                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Brass                                                   | Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20 |     |       |          |                      |  |         |        |                                                       |  |       |       |                                                       |  |               |                  |                                          |  |        |         |  |  |             |       |                                                       |  |           |        |  |  |        |       |                                                       |  |      |       |                                                       |  |              |       |                                                       |  |
| Coupling Nut                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Brass                                                   | Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20 |     |       |          |                      |  |         |        |                                                       |  |       |       |                                                       |  |               |                  |                                          |  |        |         |  |  |             |       |                                                       |  |           |        |  |  |        |       |                                                       |  |      |       |                                                       |  |              |       |                                                       |  |
| Weight: 5.72 g                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                         |                                                       |     |       |          |                      |  |         |        |                                                       |  |       |       |                                                       |  |               |                  |                                          |  |        |         |  |  |             |       |                                                       |  |           |        |  |  |        |       |                                                       |  |      |       |                                                       |  |              |       |                                                       |  |
| Suitable Cables: RG223                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                         |                                                       |     |       |          |                      |  |         |        |                                                       |  |       |       |                                                       |  |               |                  |                                          |  |        |         |  |  |             |       |                                                       |  |           |        |  |  |        |       |                                                       |  |      |       |                                                       |  |              |       |                                                       |  |

This part number complies with RoHS.

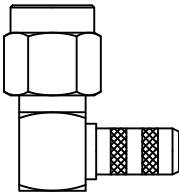
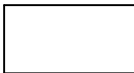
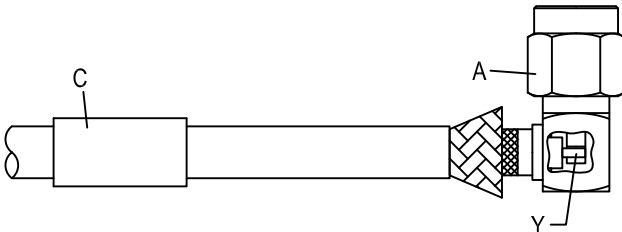
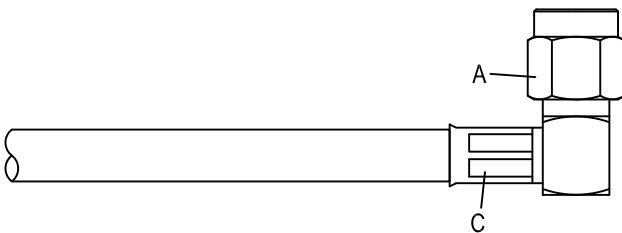
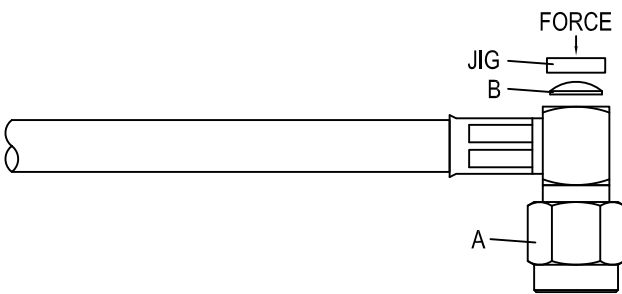
Notice: JYEBAO reserves the right to make modifications deemed appropriate.

| SMA                                                                                                                                                                                                                                                                                                                                                                                                                                                         | SMA3100-9223 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| <div>Interface</div> MIL-STD-348B<br>Mechanically compatible with 2.92 & 3.5                                                                                                                                                                                                                                                                                                                                                                                |              |
| <div>Electrical Data</div> Impedance 50Ω<br>Frequency range DC to 11GHz<br>VSWR $\leq 1.2$ (DC to 11GHz)<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) 1000 V rms<br>Working voltage (at sea level) 335 V rms |              |
| <div>Mechanical Data</div> 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) $\geq 100$                                                                                                                                                                                                                   |              |
| <div>Environmental Data</div> 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                                                                                                                                                                                                                    |              |
| <div>Tooling</div> Crimping tool CRT-1 or CRT-2<br>Crimp insert INSERT-B                                                                                                                                                                                                                                                                                                                                                                                    |              |

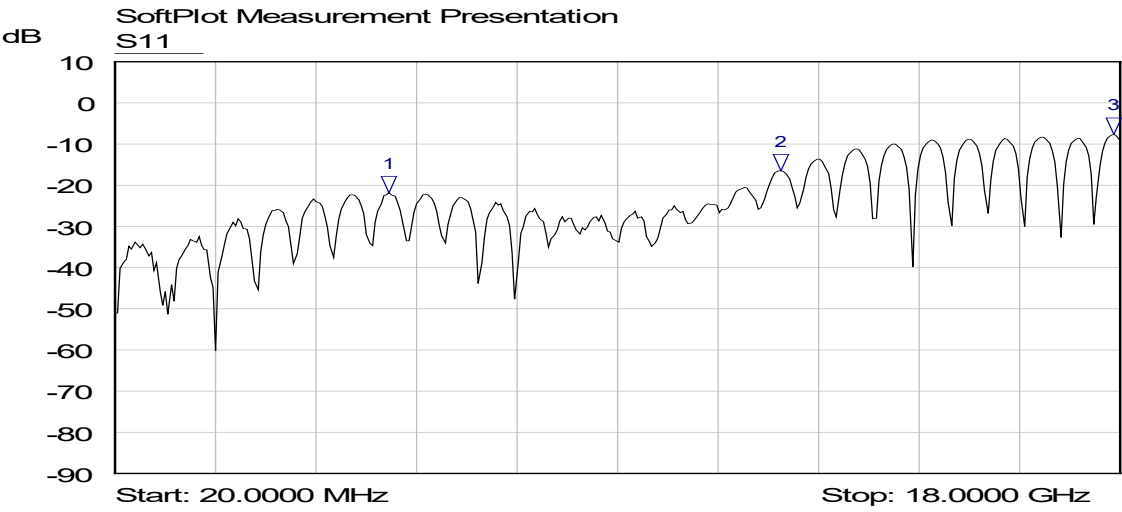
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# JYE BAO CO., LTD.

## CABLE ASSEMBLY INSTRUCTION

|                                                                                                                                                                                                                                                                                                                                                                                                                         |  |         |                                                                                                                                                                            |         |   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---|
| SMA3100-9223                                                                                                                                                                                                                                                                                                                                                                                                            |  | DATE    | 2014/04/29                                                                                                                                                                 | REV     | — |
| <div><div><div>A</div><div></div><div>BODY</div></div><div><div>B</div><div></div><div>COVER</div></div><div><div>C</div><div></div><div>FERRULE</div></div></div> |  |         |                                                                                                                                                                            |         |   |
| DIAGRAM                                                                                                                                                                                                                                                                                                                                                                                                                 |  |         | ASSEMBLY INSTRUCTION                                                                                                                                                       |         |   |
|                                                                                                                                                                                                                                                                                                                                       |  |         | Step 1: STRIP AS SHOWN.                                                                                                                                                    |         |   |
|                                                                                                                                                                                                                                                                                                                                      |  |         | Step 2: SLIDE FERRULE " C " OVER CABLE.<br>Step 3: WRAP THE BRAIDING UPWARDS.<br>Step 4: SLIDE CENTER CONDUCTOR ON THE CONTACT PIN OF CONNECTOR " A " AND SOLDER IN " Y ". |         |   |
|                                                                                                                                                                                                                                                                                                                                      |  |         | Step 5: SLIDE FERRULE " C " TOWARDS THE CONNECTOR " A " AND CRIMP.<br>(USE 5.9mm/0.232inch HEX SECTION OF INSERT-B)                                                        |         |   |
|                                                                                                                                                                                                                                                                                                                                      |  |         | Step 6: PRESS ON THE TOP OF " B " WITH JIGS.                                                                                                                               |         |   |
| This part number complies with RoHS.<br>Notice: JYEBAO reserves the right to make modifications deemed appropriate.                                                                                                                                                                                                                                                                                                     |  |         |                                                                                                                                                                            |         |   |
| APPROVED                                                                                                                                                                                                                                                                                                                                                                                                                |  | CHECKED |                                                                                                                                                                            | DRAWING |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                         |  |         |                                                                                                                                                                            | Albert  |   |

SMA3100-9223



| Mkr | Trace | X-Axis      | Value     | Notes |
|-----|-------|-------------|-----------|-------|
| 1 ▽ | S11   | 4.9237 GHz  | -21.83 dB |       |
| 2 ▽ | S11   | 11.9289 GHz | -16.43 dB |       |
| 3 ▽ | S11   | 17.8834 GHz | -7.70 dB  |       |