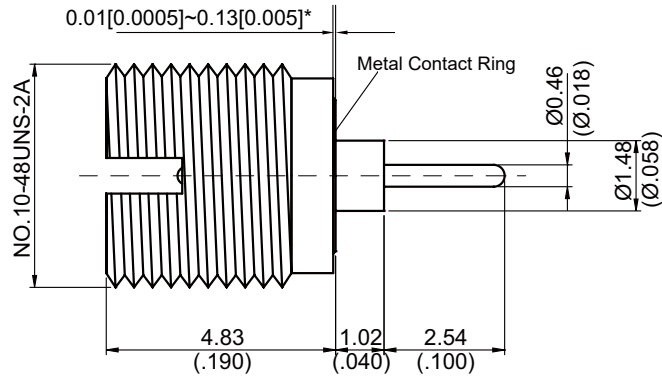
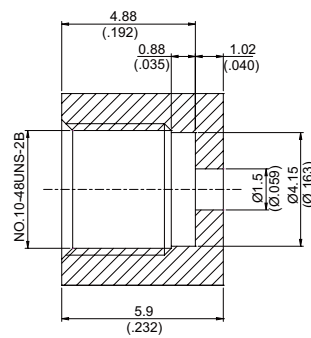


SMP3500S-SB46

**SMP Plug Smooth Bore Screw In Shroud With Round Contact ( $\Phi 0.46$ ; L=2.54); PTFE L=1.02; 27GHz VSWR 1.25  $50\Omega$**



PANEL CUT OUT



\*360° Raised Metal Contact Ring

| Parts              | Material         | Plating (Micro-inch)                                   |
|--------------------|------------------|--|
| Metal Contact Ring | Stainless Steel  | Passivated   |
| Contact Pin        | Beryllium Copper | Gold 4 Over Nickel Phosphorous Alloy 80 Over Copper 20 |
| Insulator          | Teflon           |  |
| Body               | Stainless Steel  | Passivated   |

This part number complies with RoHS.

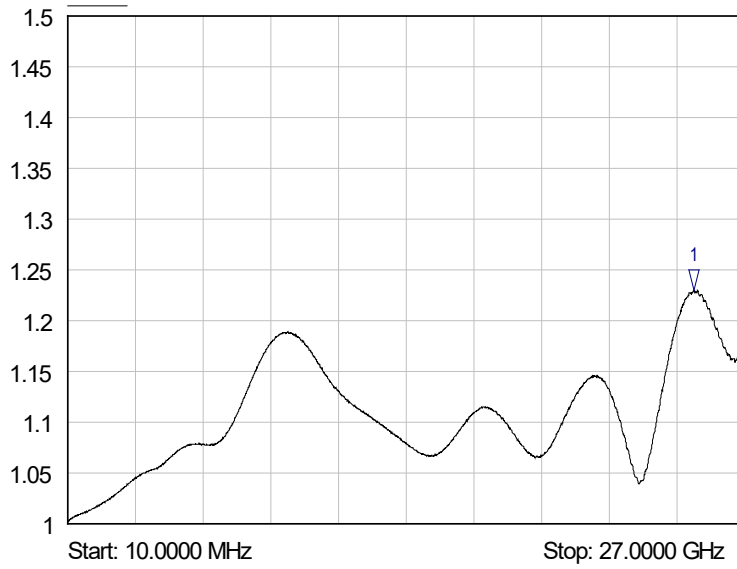
Notice: JYEBAO reserves the right to make modifications deemed appropriate.

| SMP   | SMP3500S-SB46                    |                   |                               |     |  |                |                   |                               |  |                  |           |           |          |     |                     |          |          |            |     |                     |            |            |             |  |                    |                                  |  |  |  |                     |                    |  |  |  |
|---|----------------------------------|-------------------|-------------------------------|-----|--|----------------|-------------------|-------------------------------|--|------------------|-----------|-----------|----------|-----|---------------------|----------|----------|------------|-----|---------------------|------------|------------|-------------|--|--------------------|----------------------------------|--|--|--|---------------------|--------------------|--|--|--|
| <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Interface</div> MIL-STD-348B  |                                  |                   |                               |     |  |                |                   |                               |  |                  |           |           |          |     |                     |          |          |            |     |                     |            |            |             |  |                    |                                  |  |  |  |                     |                    |  |  |  |
| <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Electrical Data</div> Impedance 50Ω<br>Frequency range DC to 27GHz<br>VSWR $\leq 1.25$ (DC to 27GHz)<br>Insertion loss $\leq .06 \times \sqrt{f(\text{GHz})}$ dB<br>Insulation resistance $\geq 5000 \text{ M}\Omega$<br>Contact resistance inner conductor $\leq 6\text{m}\Omega$<br>Contact resistance outer conductor $\leq 2\text{m}\Omega$<br>Dielectric withstanding voltage (at sea level) 500<br>Working Voltage (at sea level) 335<br>RF-Leakage $\geq 80\text{dB}$ (3GHz); $\geq 65\text{dB}$ (3~26.5GHz)   |                                  |                   |                               |     |  |                |                   |                               |  |                  |           |           |          |     |                     |          |          |            |     |                     |            |            |             |  |                    |                                  |  |  |  |                     |                    |  |  |  |
| <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Mechanical Data</div> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">Full<br/>Detent</th> <th style="text-align: center;">Limited<br/>Detent</th> <th style="text-align: center;">Smooth bore<br/>&amp; catchers mit</th> <th></th> </tr> </thead> <tbody> <tr> <td>Engagement force</td> <td style="text-align: center;"><math>\leq 15</math></td> <td style="text-align: center;"><math>\leq 10</math></td> <td style="text-align: center;"><math>\leq 2</math></td> <td style="text-align: center;">lbs</td> </tr> <tr> <td>Disengagement force</td> <td style="text-align: center;"><math>\geq 5</math></td> <td style="text-align: center;"><math>\geq 2</math></td> <td style="text-align: center;"><math>\geq 0.5</math></td> <td style="text-align: center;">lbs</td> </tr> <tr> <td>Durability (mating)</td> <td style="text-align: center;"><math>\geq 100</math></td> <td style="text-align: center;"><math>\geq 500</math></td> <td style="text-align: center;"><math>\geq 1000</math></td> <td></td> </tr> <tr> <td>Axial misalignment</td> <td colspan="4" style="text-align: center;"><math>+ 0.00 / -0.25</math> (+.000 / -.010)</td> </tr> <tr> <td>Radial misalignment</td> <td colspan="4" style="text-align: center;"><math>\pm 0.25</math> (0.010)</td> </tr> </tbody> </table> |                                  |                   |                               |     |  | Full<br>Detent | Limited<br>Detent | Smooth bore<br>& catchers mit |  | Engagement force | $\leq 15$ | $\leq 10$ | $\leq 2$ | lbs | Disengagement force | $\geq 5$ | $\geq 2$ | $\geq 0.5$ | lbs | Durability (mating) | $\geq 100$ | $\geq 500$ | $\geq 1000$ |  | Axial misalignment | $+ 0.00 / -0.25$ (+.000 / -.010) |  |  |  | Radial misalignment | $\pm 0.25$ (0.010) |  |  |  |
|   | Full<br>Detent                   | Limited<br>Detent | Smooth bore<br>& catchers mit |     |  |                |                   |                               |  |                  |           |           |          |     |                     |          |          |            |     |                     |            |            |             |  |                    |                                  |  |  |  |                     |                    |  |  |  |
| Engagement force  | $\leq 15$                        | $\leq 10$         | $\leq 2$                      | lbs |  |                |                   |                               |  |                  |           |           |          |     |                     |          |          |            |     |                     |            |            |             |  |                    |                                  |  |  |  |                     |                    |  |  |  |
| Disengagement force   | $\geq 5$                         | $\geq 2$          | $\geq 0.5$                    | lbs |  |                |                   |                               |  |                  |           |           |          |     |                     |          |          |            |     |                     |            |            |             |  |                    |                                  |  |  |  |                     |                    |  |  |  |
| Durability (mating)   | $\geq 100$                       | $\geq 500$        | $\geq 1000$                   |     |  |                |                   |                               |  |                  |           |           |          |     |                     |          |          |            |     |                     |            |            |             |  |                    |                                  |  |  |  |                     |                    |  |  |  |
| Axial misalignment  | $+ 0.00 / -0.25$ (+.000 / -.010) |                   |                               |     |  |                |                   |                               |  |                  |           |           |          |     |                     |          |          |            |     |                     |            |            |             |  |                    |                                  |  |  |  |                     |                    |  |  |  |
| Radial misalignment   | $\pm 0.25$ (0.010)               |                   |                               |     |  |                |                   |                               |  |                  |           |           |          |     |                     |          |          |            |     |                     |            |            |             |  |                    |                                  |  |  |  |                     |                    |  |  |  |
| <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">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 style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">Tooling</div>   |                                  |                   |                               |     |  |                |                   |                               |  |                  |           |           |          |     |                     |          |          |            |     |                     |            |            |             |  |                    |                                  |  |  |  |                     |                    |  |  |  |

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# SMP3500S-SB46

SoftPlot Measurement Presentation  
VSWR S11



1 S11  
24.9600 GHz  
1.23 VSWR