# Probe Positioners *for T-probe*

withwave
Next Generation Connectivity

***WithWave's Probe Positioner*** is designed for precise RF probing measurement using T-probe which have GSG & GS contact structure. The magnetic switch on metal base plate can be turned on and off to keep the positioner firmly to its position or moved and lifted to a new position easily. Its articulated arm is controlled by arm knob at the middle joint that keeps the arm firm and steady.

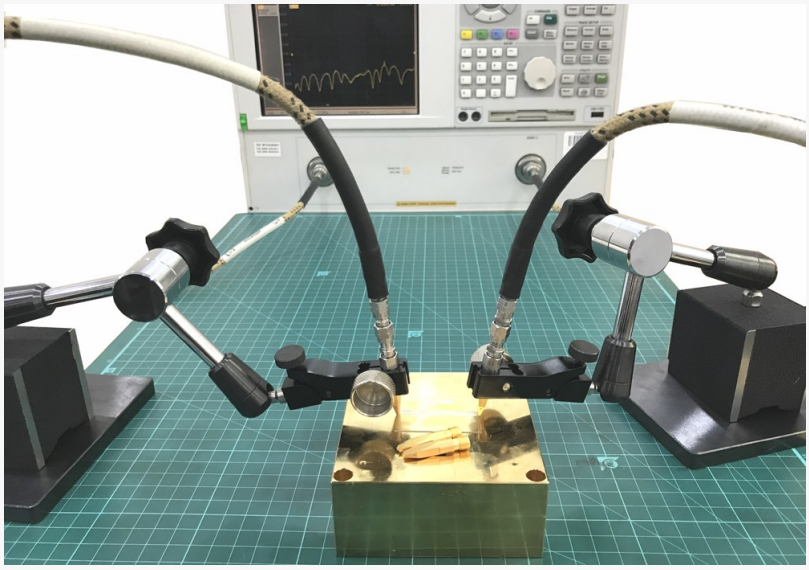



## Advantage

- Articulated and Flexible Joints
- Easy to control to X-, Y-, Z- direction using Arm Knob
- Stable test measurement

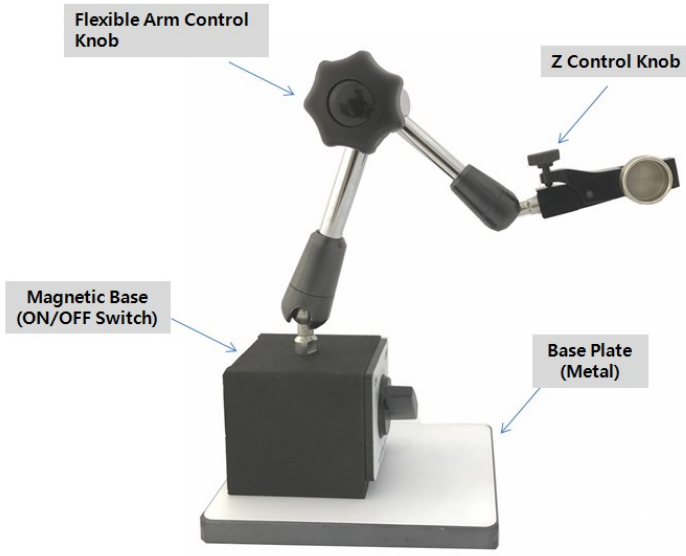
## Applications

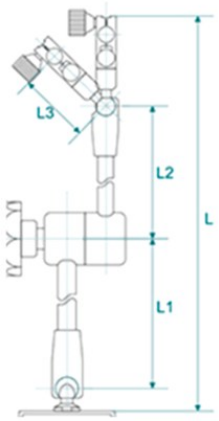
- RF & Microwave module signal insertion, detection & output measurement
- High frequency circuit board electrical performance analysis
- High speed digital circuit analysis



## Specification

| Scope | Items | Part No: PP-01 |
|---|---|---|
| Mechanical | Arm Length | L1 : 93 mm<br>L2 : 73 mm<br>L3 : 68 mm<br>Total Length : 262 mm |
| | Hole Diameter | 6.0 mm (with metal ring)<br>7.8 mm (without metal ring) |
| | Magnetic Base | Size (mm): 50 x 65 x 55 |
| | Base plate | Size (mm) : 120 x 90<br>Material : Steel |
| | Weight (Total) | 2,145 g |

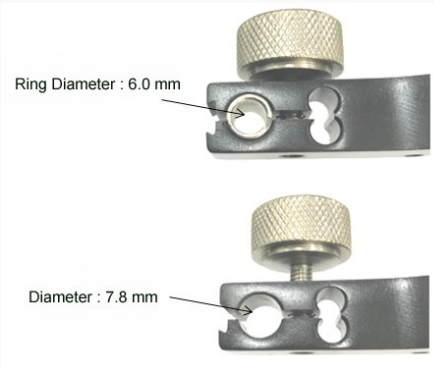



| | Arm Length (unit : mm) | | | |
|---|---|---|---|---|
| Probe Fixture | L1 | L2 | L3 | L |
| | 93 | 73 | 68 | 262 |



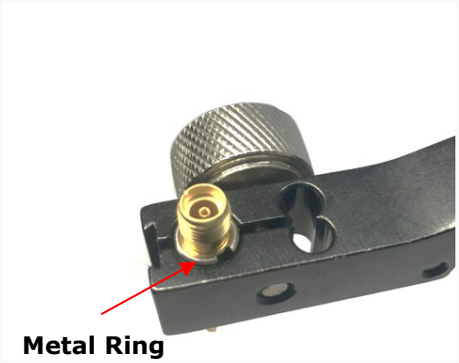


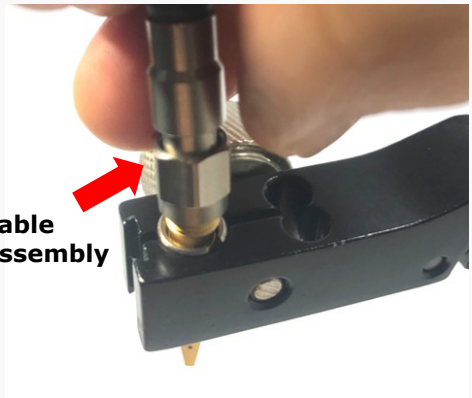
## Installation Procedure

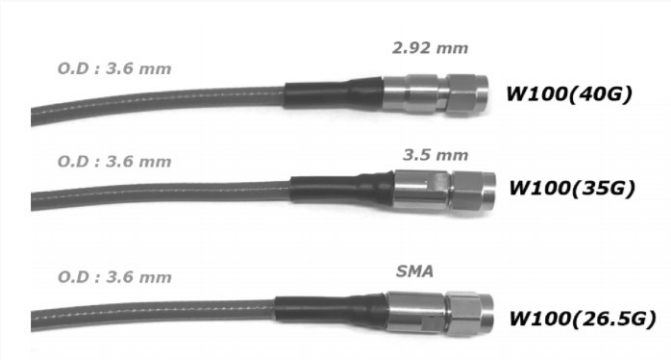
**STEP 1** :
Insert T-Probe into Slot (metal Ring) in Control Knob.






**STEP 2** :
Connect Cable Assembly to 3.5 mm(or 2.92 mm type) interface of T-probe.

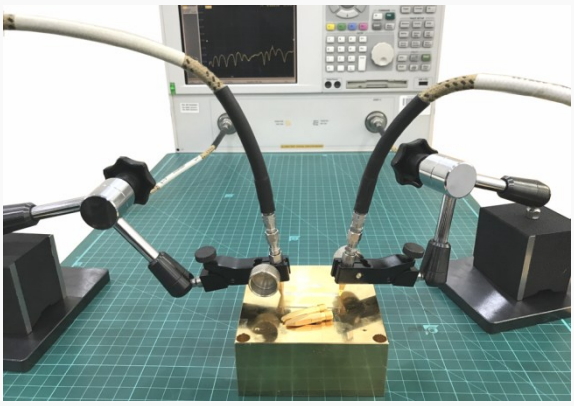



**STEP 3** :
Tighten the joint screw for fixing the Probe and Cable assembly.

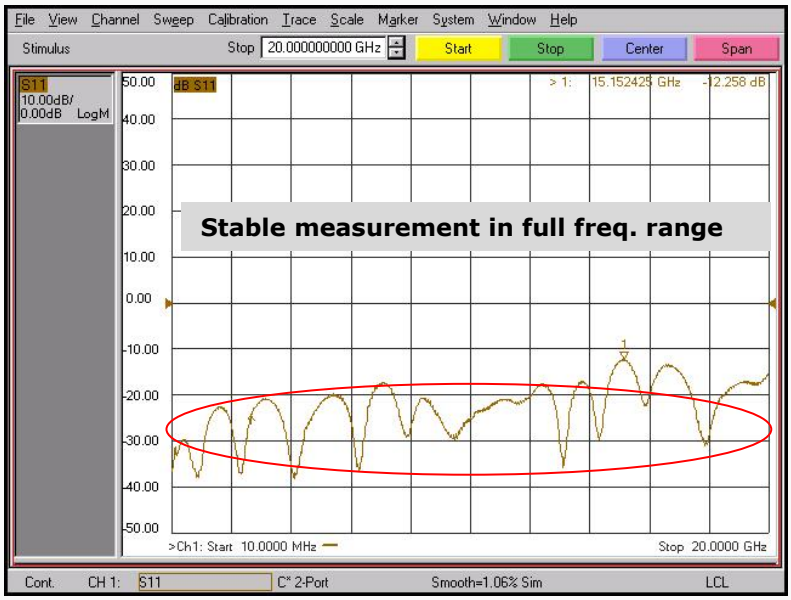


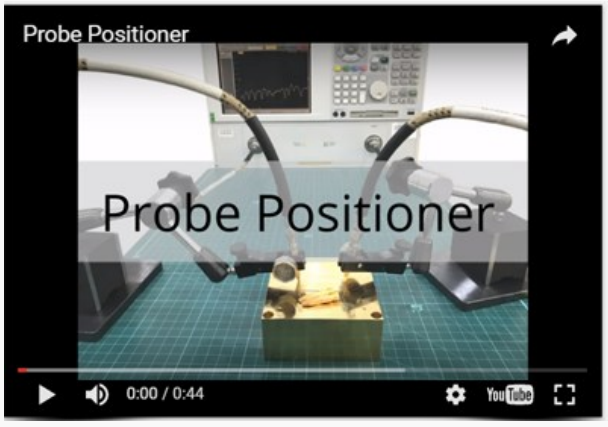
## Test Result



- Test Board : RO4350B (10 mil)
- Trace Length : 40 mm

**Freq. range : 10 MHz ~ 20 GHz**

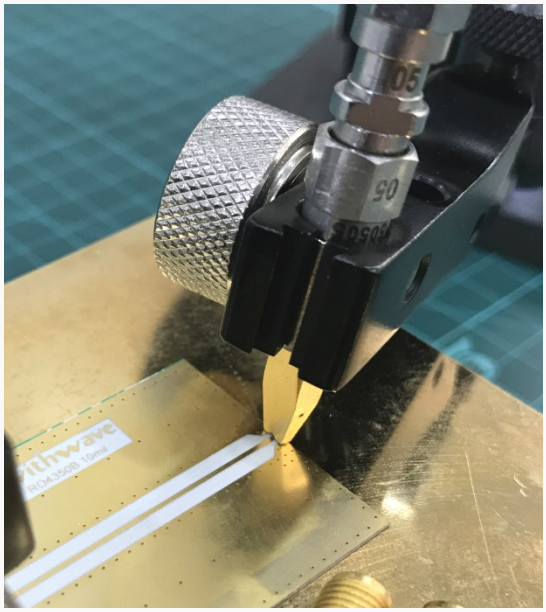




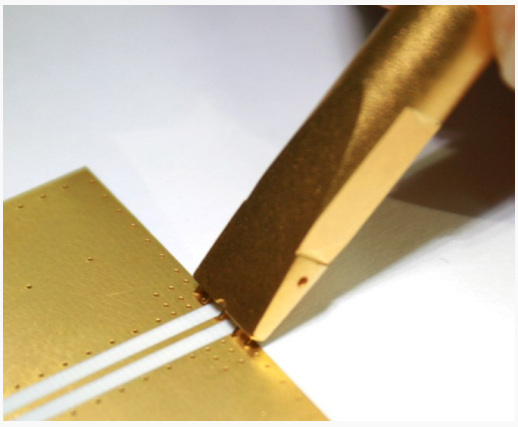


Please see YouTube video for probe Measurement

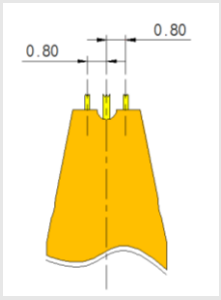
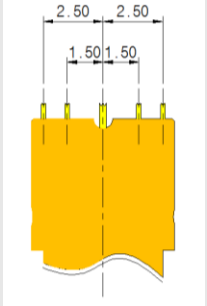


## ■ T-Probe

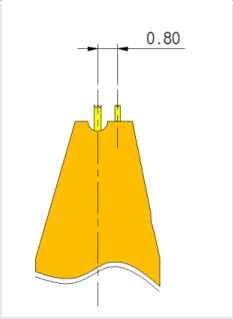
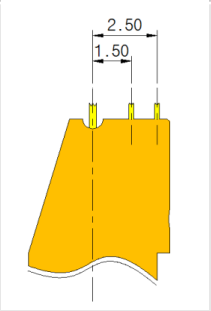




### ▪ GSG Type (pitch : 0.8/ 1.5, 2.5)

| Part No. | PU-03G-01<br>PU-04G-01 | PU-03G-02<br>PU-04G-02 |
|---|---|---|
| Pitch (mm) | 0.8 | 1.5 & 2.5 |
| Structure |  |  |

### ▪ GS Type (pitch : 0.8/ 1.5, 2.5)

| Part No. | PU-03S-01<br>PU-04S-01 | PU-03S-02<br>PU-04S-02 |
|---|---|---|
| Pitch (mm) | 0.8 | 1.5 & 2.5 |
| Structure |  |  |

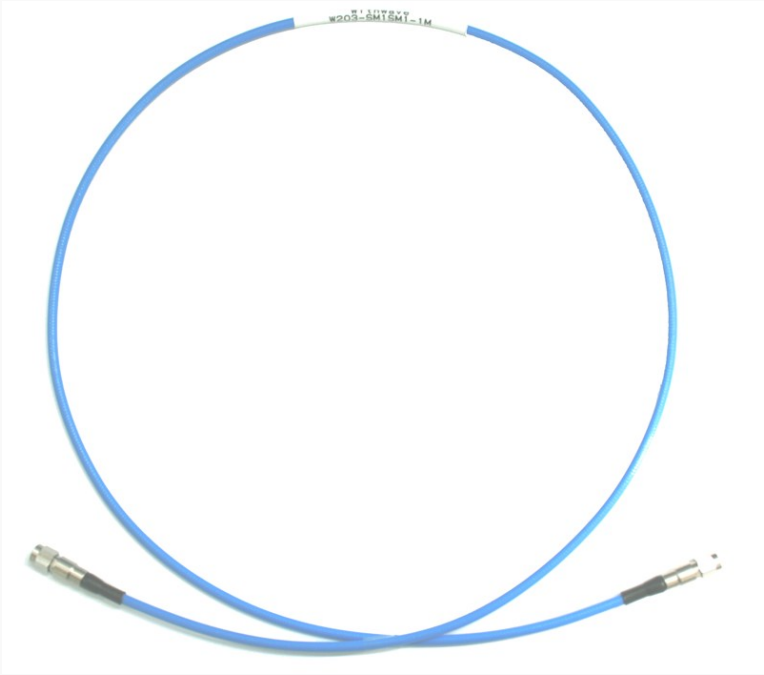
## ■ Accessories : Test Cable Assembly

### W203 cable assembly





▪ **Part No. : W203-SM1SM1-1M**



- ▪ Frequency : DC to 26.5 GHz
- ▪ Connector : SMA(Male)
- ▪ Cable :W203
- ▪ Cable Diameter : 3.80 mm

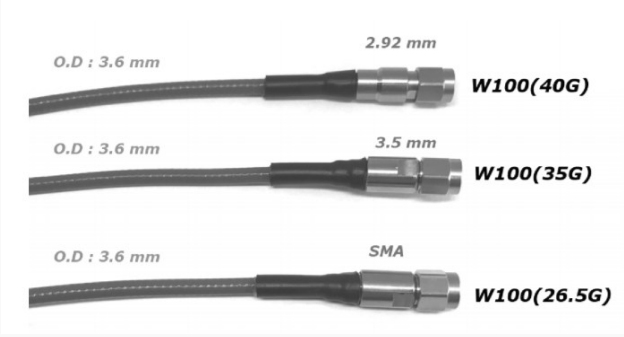
## Accessories : Test Cable Assembly

### W100 cable assembly










- Frequency : DC to 40 GHz
- Connector : 2.92 mm (Male)
- Cable :W100
- Cable Diameter : 3.60 mm

## Revision History

| Revision | Date | Changes |
|---|---|---|
| Ver 1.0<br>Ver.1.1<br>Ver 1.2 | 2017-07-01<br>2018-10-01<br>2019-10-10 | Released Probe Positioner<br>Adding video file for instruction<br>Adding instruction how to insert probe into slot |