

Your Partner in Probing Solutions



## EB-6A mmW Probe Station

Optimized mmW Probe Station for  
precise integration with  
Anritsu Millimeter-Wave Modules

The EB-6A is a market proven solution developed closely together with Anritsu and provides the following features:

### Features

- Customized Positioners Specifically For Anritsu Broadband Millimeter-Wave Modules
- Integrated Heat-Sink and Mount for Millimeter-Wave Modules
- Precise Integration Allowing Direct Link of Probes
- Double-Side mmW Probing Upgradeable
- Coaxial Style High Precision Stage
- Back-lash free movement
- 4.5" Probe Card Holder compatible
- Micropositioner Standby Dock

### Applications

- High Performance RF
- Single Broadband Probing
- Differential mm-Wave
- Basic DC (IV/CV)

### Accessories

- Hot Chuck with Auxiliary Chuck with Temperature Controller
- Vibration Free Table
- Shielding Box

Distribution in the UK & Ireland



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# EB-6A PROBE STATION

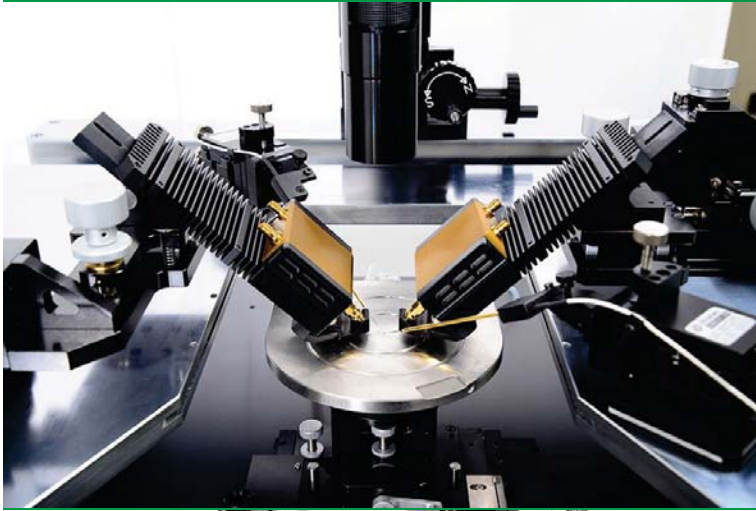
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### Station Specifications

Station Footprint	760 mm W x 660mm D
Station Height	450 mm (to Platen)/700 mm (to Microscope)
Station Weight	80kg
Platen Material	Hard Chrome Plated Steel
Platen Dimension	250 mm Inner, 450mm Outer
Platen Capacity	12 DC or 4 RF and 4 DC
Positioner Mount	Magnetic ON/OFF Switch
No. of Vacuum Switches	4
Chuck Material	Stainless Steel
Chuck Stage Type	Coaxial
Chuck Travel Range	6" x 6"
Chuck Fine Resolution	1 $\mu$ m
Chuck Theta Coarse Travel	360°
Chuck Theta Fine Resolution	0.01°
Chuck Z-Motion Range	4 mm
Chuck Z-Fine Resolution	1 $\mu$ m
Coaxial Chuck Movement	Bevelled Gear and Rack 0.8 mm Pitch
Chuck Size	6" (150 mm)
Chuck Planarity	3 $\mu$ m
Chuck Rigidity	15 $\mu$ m / 10 N @ edge
Chuck Vacuum Grooves	Center, 0.5", 1.5", 2.5" (Individually Controlled)
Chuck Bias Capacity	Up to 2 kV
Chuck Isolation	5 G $\Omega$
DUT Size Range	2 mm - 150 mm
Microscope Stage Type	High Precision Linear Stage
Microscope Stage Resolution	1 $\mu$ m
Microscope Stage Travel Range	2" x 2"
Microscope Tilting (Optional)	35°
Microscope Zoom Range	1x - 2x
Microscope Eye Piece	10x
Microscope Objectives	2x, 10x, 20x
Microscope Magnification Range	20x-400x

# EB-6A PROBE STATION

## mmW Micropositioner Features



### EB-AN-125

**Resolution:** 0.8  $\mu\text{m}$

**Travel Range:** Linear 25 mm X-Y-Z

**Dimensions:** 150 mm W x 200 mm D x 86 mm H

**Weight:** 1200 g

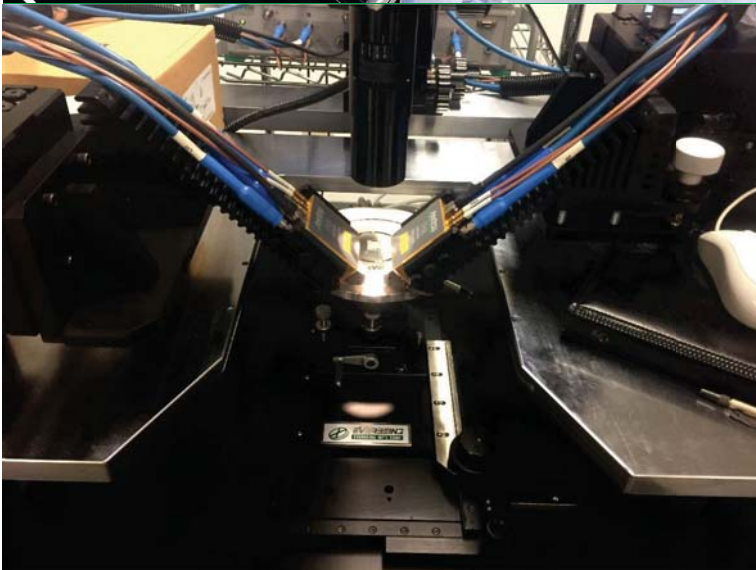
**Extender Compability:** Anritsu 3743A/E, Anritsu MA25300A, Anritsu 3744A/E

### Features:

- Integrated heat sink to cool mmW modules ensuring consistent performance when in use

- Angled arrangement allows direct connection to RF probes, removing the use of extra waveguides, reducing loss

- Backside probing option available for positioner



# EB-6A PROBE STATION

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## Micropositioner Options

All micropositioners offer X-Y-Z linear-motion travel with no backlash with mounting options including magnet, vacuum or magnet switch

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### EB-050

**Resolution:** 0.8  $\mu\text{m}$

**Screw Resolution:** 212  $\mu\text{m}$

**Travel Range:** Linear 12 mm X-Y-Z

**Dimensions:** 52 mm W x 96 mm D x 76 mm H

**Weight:** 550 g

**Use For:** DC/RF Capable

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### EB-700

**Resolution:** 2  $\mu\text{m}$

**Screw Resolution:** 630  $\mu\text{m}$

**Travel Range:** Linear 12 mm X-Y-Z

**Dimensions:** 38 mm W x 62 mm D x 45 mm H

**Weight:** 200 g

**Used For:** DC Only

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### EB-005

**Resolution:** 0.3  $\mu\text{m}$

**Screw Resolution:** 125  $\mu\text{m}$

**Travel Range:** Linear 12 mm X-Y-Z

**Dimensions:** 90 mm W x 130 mm D x 90 mm H

**Weight:** 1000 g

**Used For:** DC/RF Capable

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# EB-6A PROBE STATION

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## Vibration Free Table Option (Recommended)

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### VFT-4836

**Dimension:** 48" W x 36" D x 36" H  
**Vertical Natural Frequency:** 1.5 Hz  
**Isolation Efficiency:** @ 5 Hz 85%  
**Horizontal Natural Frequency:** 1.2 Hz  
**Isolation Efficiency:** @ 5 Hz 91%  
**Air Requirement:** 80 psi  
**Net Load:** 200 kg  
**Material:** Stainless Steel TableTop

Distribution in the UK & Ireland



**Characterisation,  
Measurement &  
Analysis**

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