

# Waveguide Probe

## (ANT-WGP) Probe

### SPECIFICATIONS

Model	ANT-WGP-18-26.5
Frequency Range (GHz)	18.00–26.50
Material	Aluminum
Waveguide Type	WR-42
Nominal Directivity <sup>1</sup> (dBi)	6.5

### DIMENSIONS

Width: cm (in.)	10.1 (4.0)
Height: cm (in.)	10.1 (4.0)
Depth: cm (in.)	26.1 (10.0)
Weight kg (lb)	0.1 (0.4)



### FEATURES

- Rectangular open-ended waveguide
- Coax-to-waveguide transition (below 50 GHz)
- Tapered ends to minimize diffraction effects

### DESCRIPTION

NSI-MI Technologies' Waveguide probes (ANT-WGP) enable accurate and practical microwave antenna pattern and gain measurements. Their primary application is as a measurement sensor for probe-corrected planar, cylindrical, and spherical near-field antenna measurements. These products provide a well-known and repeatable antenna pattern that can be obtained from closed form mathematical models.

### INCLUDES

- Waveguide probe
- RF interface
- User manual

### APPLICATIONS

- Near-field testing
- AUT illumination

<sup>1</sup> Directivities and beamwidths are given at the mid-band frequency

# Waveguide Probe

## (ANT-WGP-C) With cage

### SPECIFICATIONS

Model	ANT-WGP-18-26.5-C
Frequency Range (GHz)	18.00–26.50
Material	Aluminum
Waveguide Type	WR-42
Nominal Directivity <sup>1</sup> (dBi)	6.5
CW Power Handling <sup>2</sup> (W)	15
RF Connector	2.92 mm

### DIMENSIONS

Width: cm (in.)	11.4 (4.5)
Height: cm (in.)	11.4 (4.5)
Depth: cm (in.)	40.0 (15.75)
Weight kg (lb)	0.4 (1.0)



### FEATURES

- Rectangular open-ended waveguide
- Coax-to-waveguide transition (below 50 GHz)
- Tapered ends to minimize diffraction effects

### DESCRIPTION

NSI-MI Technologies' Waveguide probes (ANT-WGP) enable accurate and practical microwave antenna pattern and gain measurements. Their primary application is as a measurement sensor for probe-corrected planar, cylindrical, and spherical near-field antenna measurements. These products provide a well-known and repeatable antenna pattern that can be obtained from closed form mathematical models.

### INCLUDES

- Waveguide probe
- Mounting cage
- RF interface
- User manual

### APPLICATIONS

- Near-field testing
- AUT illumination

<sup>1</sup> Directivities and beamwidths are given at the mid-band frequency

<sup>2</sup> Maximum CW power

# Waveguide Probe

(ANT-WGP-C-A) With cage and absorber

## SPECIFICATIONS

Model	ANT-WGP-18-26.5-C-A
Frequency Range (GHz)	18.00–26.50
Material	Aluminum
Waveguide Type	WR-42
Nominal Directivity <sup>1</sup> (dBi)	6.5
VSWR	< 2.5:1
CW Power Handling <sup>2</sup> (W)	15
RF Connector	2.92 mm

## DIMENSIONS

Width: cm (in.)	26.1 (10.3)
Height: cm (in.)	26.1 (10.3)
Depth: cm (in.)	40.0 (15.75)
Weight kg (lb)	0.9 (2.0)



## FEATURES

- Rectangular open-ended waveguide
- Coax-to-waveguide transition (below 50 GHz)
- Tapered ends to minimize diffraction effects

## DESCRIPTION

NSI-MI Technologies' Waveguide probes (ANT-WGP) enable accurate and practical microwave antenna pattern and gain measurements. Their primary application is as a measurement sensor for probe-corrected planar, cylindrical, and spherical near-field antenna measurements. These products provide a well-known and repeatable antenna pattern that can be obtained from closed form mathematical models.

## INCLUDES

- Waveguide probe
- Mounting cage
- RF interface
- User manual

## APPLICATIONS

- Near-field testing
- AUT illumination

<sup>1</sup> Directivities and beamwidths are given at the mid-band frequency

<sup>2</sup> Maximum CW power

# Waveguide Probe

## (ANT-WGP-C2) Smaller plate option

### SPECIFICATIONS

Model	ANT-WGP-18-26.5-C2
Frequency Range (GHz)	18.00–26.50
Material	Aluminum
Waveguide Type	WR-42
Nominal Directivity <sup>1</sup> (dBi)	6.5
VSWR	< 2.5:1
CW Power Handling <sup>2</sup> (W)	15
RF Connector	2.92 mm

### DIMENSIONS

Width: cm (in.)	20.3 (8.0)
Height: cm (in.)	20.3 (8.0)
Depth: cm (in.)	40.3 (15.88)
Weight kg (lb)	1.0 (2.4)



### FEATURES

- Rectangular open-ended waveguide
- Coax-to-waveguide transition (below 50 GHz)
- Tapered ends to minimize diffraction effects

### DESCRIPTION

NSI-MI Technologies' Waveguide probes (ANT-WGP) enable accurate and practical microwave antenna pattern and gain measurements. Their primary application is as a measurement sensor for probe-corrected planar, cylindrical, and spherical near-field antenna measurements. These products provide a well-known and repeatable antenna pattern that can be obtained from closed form mathematical models.

### INCLUDES

- Waveguide probe
- Mounting cage
- RF interface
- User manual

### APPLICATIONS

- Near-field testing
- AUT illumination

<sup>1</sup> Directivities and beamwidths are given at the mid-band frequency

<sup>2</sup> Maximum CW power

# Waveguide Probe

## (ANT-WGP-C2-A) Smaller plate option

### SPECIFICATIONS

Model	ANT-WGP-18-26.5-C2-A
Frequency Range (GHz)	18.00–26.50
Material	Aluminum
Waveguide Type	WR-42
Nominal Directivity <sup>1</sup> (dBi)	6.5
VSWR	< 2.5:1
CW Power Handling <sup>2</sup> (W)	15
RF Connector	2.92 mm

### DIMENSIONS

Width: cm (in.)	26.1 (10.3)
Height: cm (in.)	26.1 (10.3)
Depth: cm (in.)	40.3 (15.88)
Weight kg (lb)	1.5 (3.4)



### FEATURES

- Rectangular open-ended waveguide
- Coax-to-waveguide transition (below 50 GHz)
- Tapered ends to minimize diffraction effects

### DESCRIPTION

NSI-MI Technologies' Waveguide probes (ANT-WGP) enable accurate and practical microwave antenna pattern and gain measurements. Their primary application is as a measurement sensor for probe-corrected planar, cylindrical, and spherical near-field antenna measurements. These products provide a well-known and repeatable antenna pattern that can be obtained from closed form mathematical models.

### INCLUDES

- Waveguide probe
- Mounting cage
- RF interface
- User manual

### APPLICATIONS

- Near-field testing
- AUT illumination

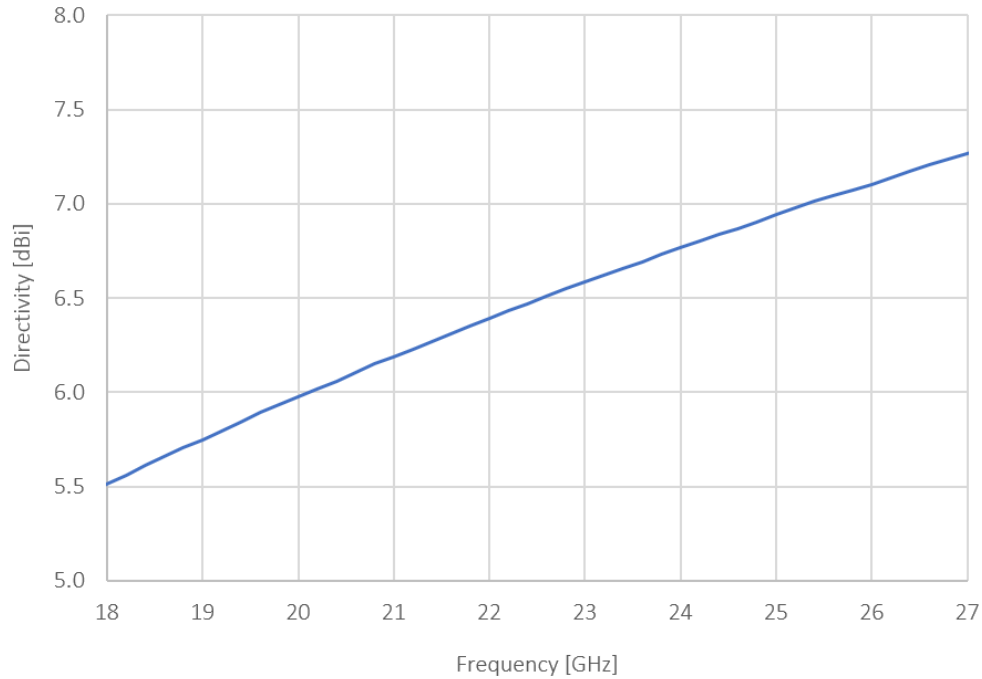
<sup>1</sup> Directivities and beamwidths are given at the mid-band frequency

<sup>2</sup> Maximum CW power

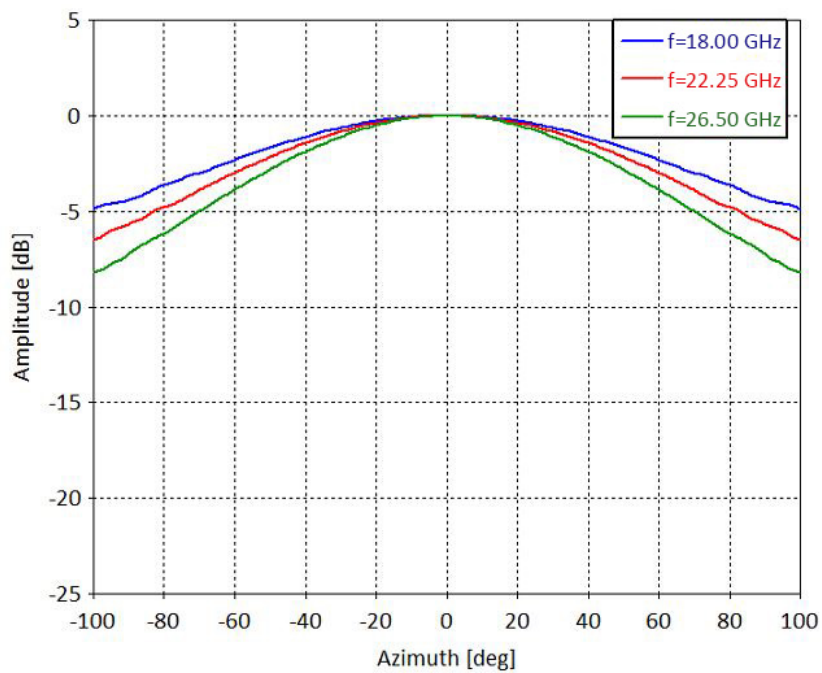
# Waveguide Probe

ANT-WGP-18-26.5

## DIRECTIVITY VS FREQUENCY



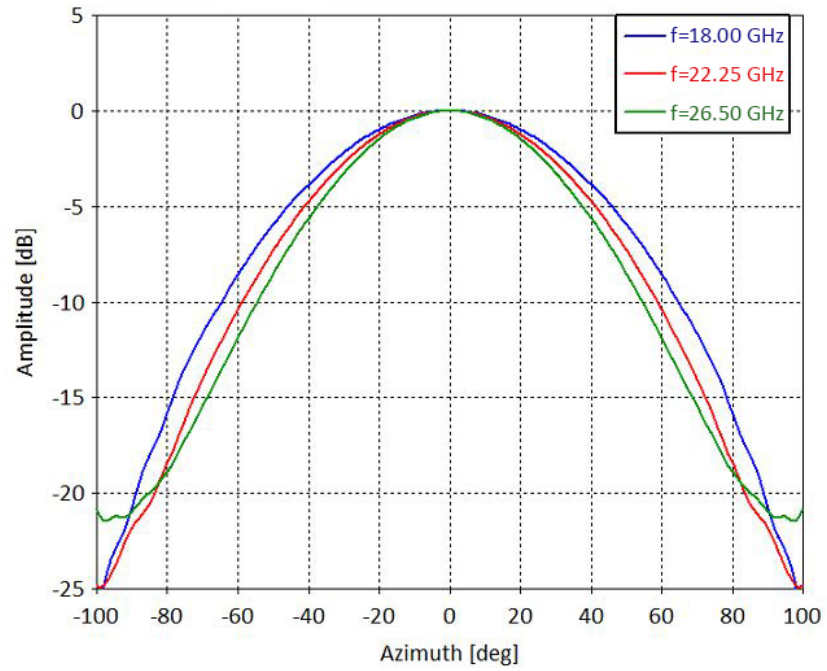
## ANT-WGP E-PLANE



# Waveguide Probe

ANT-WGP-18-26.5

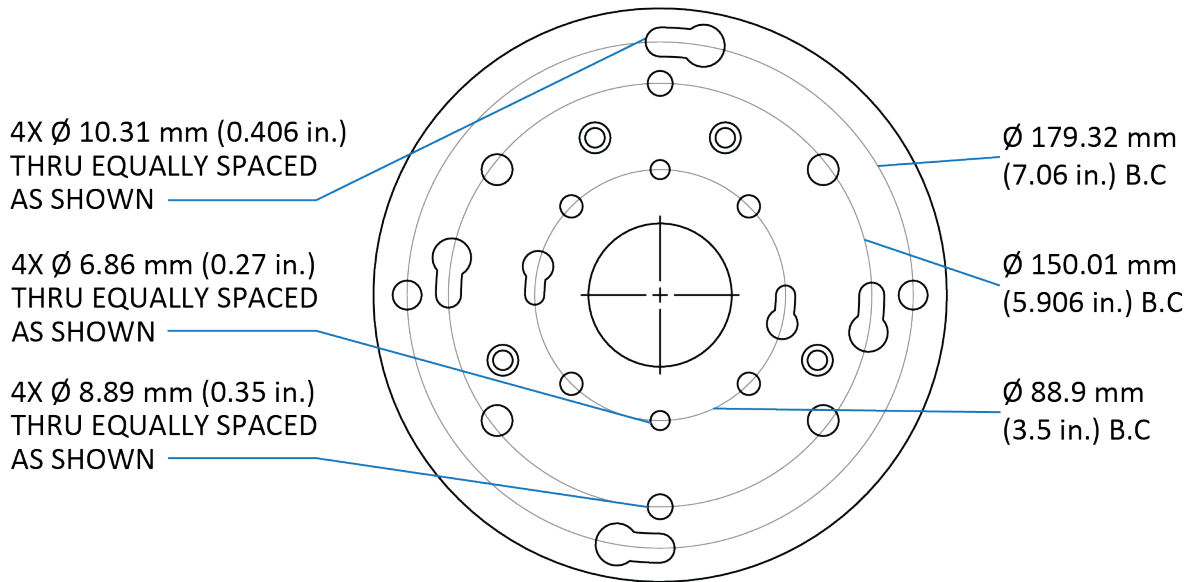
## ANT-WGP H-PLANE



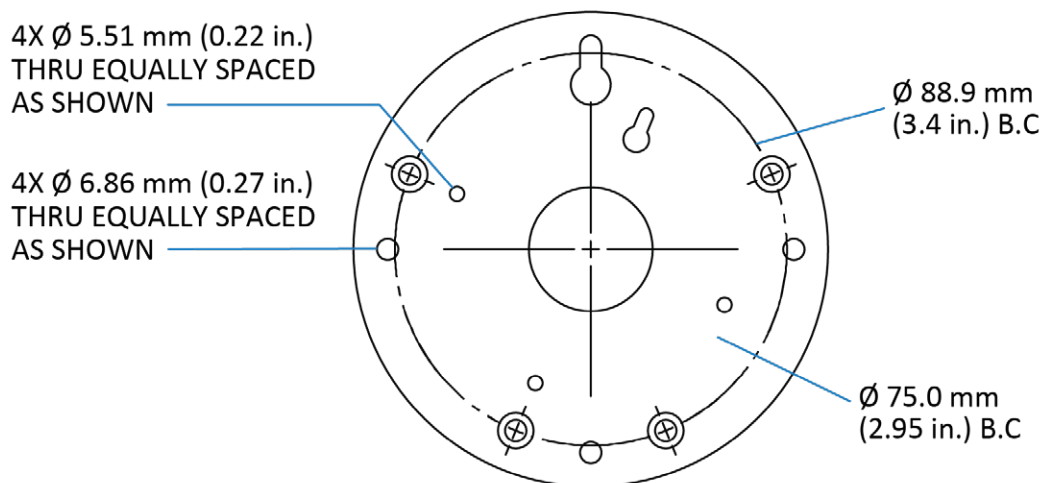
# Waveguide Probe

ANT-WGP-18-26.5

## MOUNTING PLATE FOR ANT-WGP-C

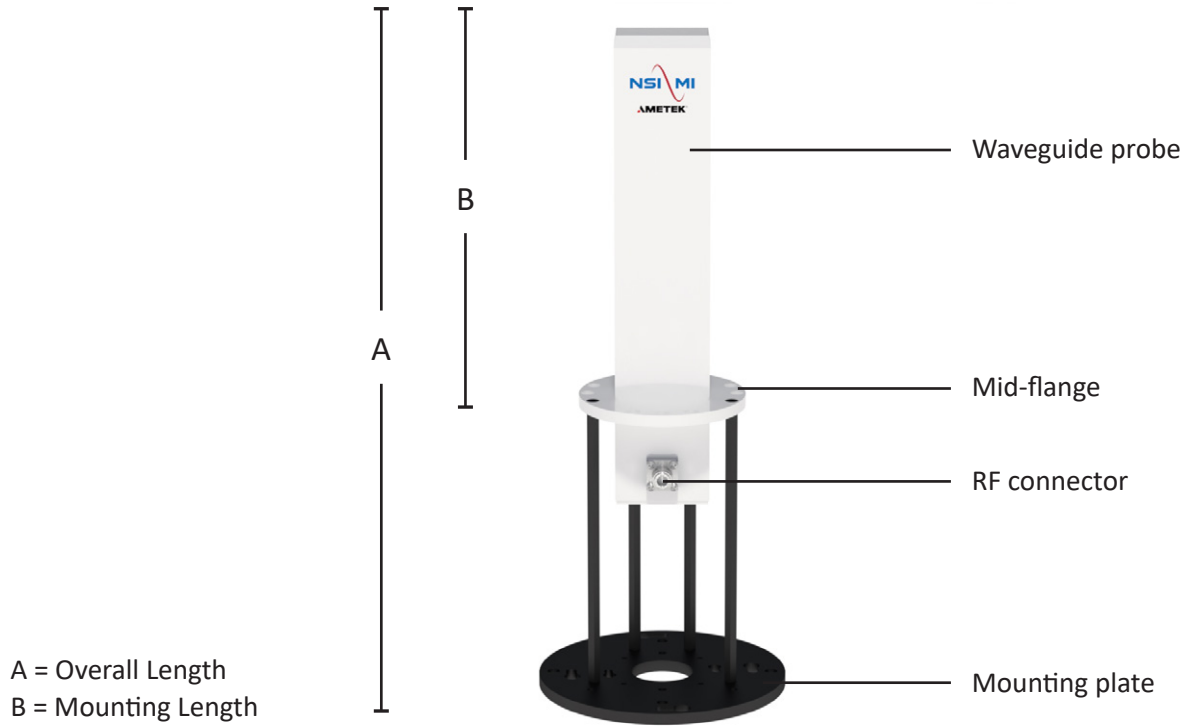


## MOUNTING PLATE FOR ANT-WGP-C2



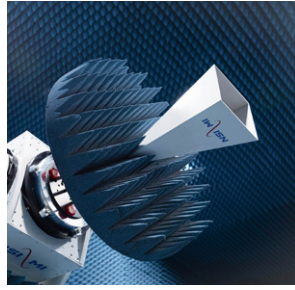
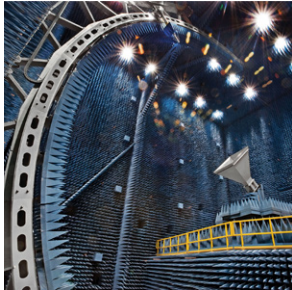
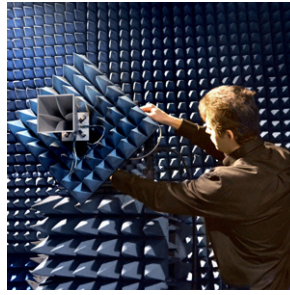
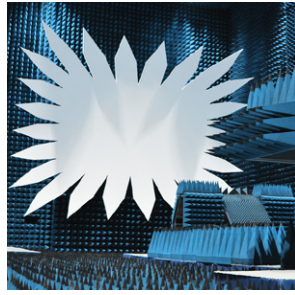
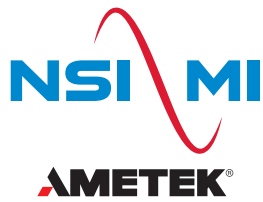


## ANT-WGP-C MODEL



## ANT-WGP-C-A MODEL





Test  
with  
Confidence

## LOCATIONS

1125 Satellite Blvd., Suite 100  
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**NSI-MI Technologies** introduced the world to microwave antenna measurement systems and is the preferred global supplier of antenna, radar cross section, and radome measurement solutions. Today, our innovative products, systems, and services lead the industry in setting new standards for tomorrow's performance. From world-class in-house testing facilities to delivering industry-leading turnkey systems, we provide the highest quality measurement products on the market.

Our full range of standard products and custom-designed systems are backed by our longstanding commitment to precision-engineered accuracy, reliability, and lasting performance. We provide the right solution for every RF measurement need and our worldwide network of service professionals are always available to offer support.

For more information on ordering NSI-MI Technologies' products, applications or services please contact your nearest NSI-MI office. Our complete sales team information is available at: [www.nsi-mi.com/contact-us](http://www.nsi-mi.com/contact-us)

## ISO 9001:2015 CERTIFIED

