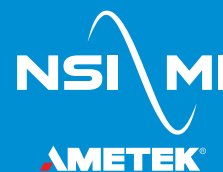


Standard Gain Horn

Horn Only

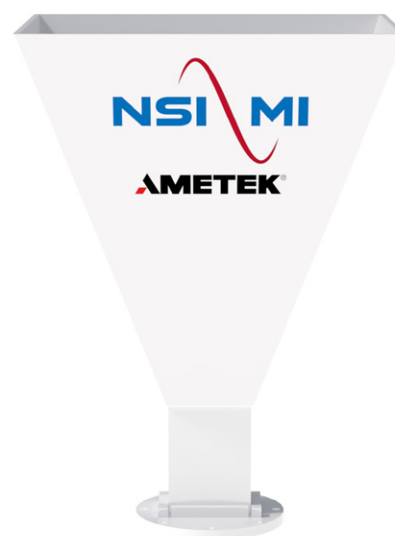


SPECIFICATIONS

| | |
|-----------------------|-------------------|
| Model | ANT-SGH-3.95-5.85 |
| Frequency Range (GHz) | 3.95–5.85 |
| Part Number | 718447 |
| Material | Aluminum |
| Nominal Gain (dBi) | 18.6 |

DIMENSIONS

| | |
|------------------|-----------|
| Length: cm (in.) | 31 (12.1) |
| Width: cm (in.) | 22 (8.8) |
| Height: cm (in.) | 17 (6.6) |
| Weight kg (lb) | 1.1 (2.5) |



DESCRIPTION

This specialized standard gain horn guarantees accurate measurements in antenna test range applications with a frequency range of 3.95 to 5.85 GHz. Made with high-quality materials, it remains durable and reliable even after years of use. We offer various configurations to meet your specific needs in antenna testing. Trust our standard gain horns for consistent and dependable results.

FEATURES

- Precision gain calibration standard
- Robust welded mechanical design
- Compliant with NRL-4433 standard
- Linear polarization

INCLUDES

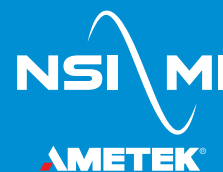
- ANT-SGH Standard Gain Horn
- Waveguide flange
- Naval Research Laboratory (NRL) curve data
- User manual

APPLICATIONS

- Automotive
- Radar Cross Section
- Radome
- Satellite
- Wireless

Standard Gain Horn

With Cage Only



SPECIFICATIONS

| | |
|-----------------------|-------------------|
| Model | ANT-SGA-3.95-5.85 |
| Frequency Range (GHz) | 3.95–5.85 |
| Part Number | 722440-WR187-00 |
| Material | Aluminum |
| Waveguide Type | WR-187 |
| Nominal Gain (dBi) | 18.6 |
| VSWR | < 1.5:1 |
| CW Power Handling (W) | 125 |
| RF Connector | N-Female |

DIMENSIONS

| | |
|------------------|-----------|
| Length: cm (in.) | 46 (18.2) |
| Width: cm (in.) | 22 (8.8) |
| Height: cm (in.) | 20.3 (8) |
| Base: cm (in.) | 20 (Ø8.0) |
| Weight kg (lb) | 2.1 (4.7) |



DESCRIPTION

This specialized standard gain horn guarantees accurate measurements in antenna test range applications with a frequency range of 3.95 to 5.85 GHz. Made with high-quality materials, it remains durable and reliable even after years of use. We offer various configurations to meet your specific needs in antenna testing. Trust our standard gain horns for consistent and dependable results.

FEATURES

- Precision gain calibration standard
- Robust welded mechanical design
- Compliant with NRL-4433 standard
- Linear polarization
- Low VSWR

INCLUDES

- ANT-SGH Standard Gain Horn
- Mounting flange
- Coax connector
- Naval Research Laboratory (NRL) curve data
- User manual

APPLICATIONS

- Automotive
- Radar Cross Section
- Radome
- Satellite
- Wireless

Standard Gain Horn

With Cage and Standard Absorber

SPECIFICATIONS

| | |
|-----------------------|-------------------|
| Model | ANT-SGA-3.95-5.85 |
| Frequency Range (GHz) | 3.95–5.85 |
| Part Number | 722440-WR187-20 |
| Material | Aluminum |
| Waveguide Type | WR-187 |
| Nominal Gain (dBi) | 18.6 |
| VSWR | < 1.5:1 |
| CW Power Handling (W) | 125 |
| RF Connector | N-Female |

DIMENSIONS

| | |
|------------------|-----------|
| Length: cm (in.) | 46 (18.2) |
| Width: cm (in.) | 22 (8.8) |
| Height: cm (in.) | 20.3 (8) |
| Base: cm (in.) | 20 (Ø8.0) |
| Weight: kg (lb) | 2.2 (4.9) |



DESCRIPTION

This specialized standard gain horn guarantees accurate measurements in antenna test range applications with a frequency range of 3.95 to 5.85 GHz. Made with high-quality materials, it remains durable and reliable even after years of use. We offer various configurations to meet your specific needs in antenna testing. Trust our standard gain horns for consistent and dependable results.

FEATURES

- Precision gain calibration standard
- Robust welded mechanical design
- Compliant with NRL-4433 standard
- Linear polarization
- Low VSWR

INCLUDES

- ANT-SGH Standard Gain Horn
- Standard absorber configuration
- Mounting flange
- Coax connector
- Naval Research Laboratory (NRL) curve data
- User manual

APPLICATIONS

- Automotive
- Radar Cross Section
- Radome
- Satellite
- Wireless

Standard Gain Horn

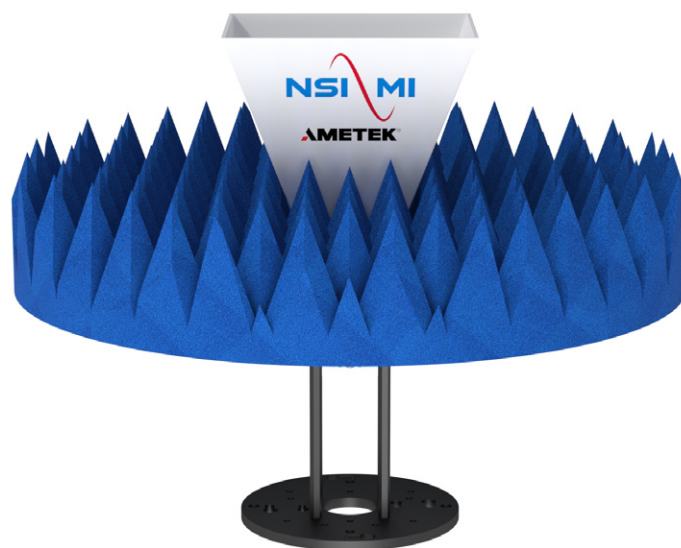
With Cage and Extended Absorber

SPECIFICATIONS

| | |
|-----------------------|-------------------|
| Model | ANT-SGA-3.95-5.85 |
| Frequency Range (GHz) | 3.95–5.85 |
| Part Number | 722440-WR187-10 |
| Material | Aluminum |
| Waveguide Type | WR-187 |
| Nominal Gain (dBi) | 18.6 |
| VSWR | < 1.5:1 |
| CW Power Handling (W) | 125 |
| RF Connector | N-Female |

DIMENSIONS

| | |
|------------------|------------|
| Length: cm (in.) | 46 (18.2) |
| Width: cm (in.) | 61 (24) |
| Height: cm (in.) | 20.3 (8) |
| Base: cm (in.) | 20 (Ø8.0) |
| Weight: kg (lb) | 9.5 (21.0) |



DESCRIPTION

This specialized standard gain horn guarantees accurate measurements in antenna test range applications with a frequency range of 3.95 to 5.85 GHz. Made with high-quality materials, it remains durable and reliable even after years of use. We offer various configurations to meet your specific needs in antenna testing. Trust our standard gain horns for consistent and dependable results.

FEATURES

- Precision gain calibration standard
- Robust welded mechanical design
- Compliant with NRL-4433 standard
- Linear polarization
- Low VSWR

INCLUDES

- ANT-SGH Standard Gain Horn
- Extra large absorber configuration
- Mounting flange
- Coax connector
- Naval Research Laboratory (NRL) curve data
- User manual

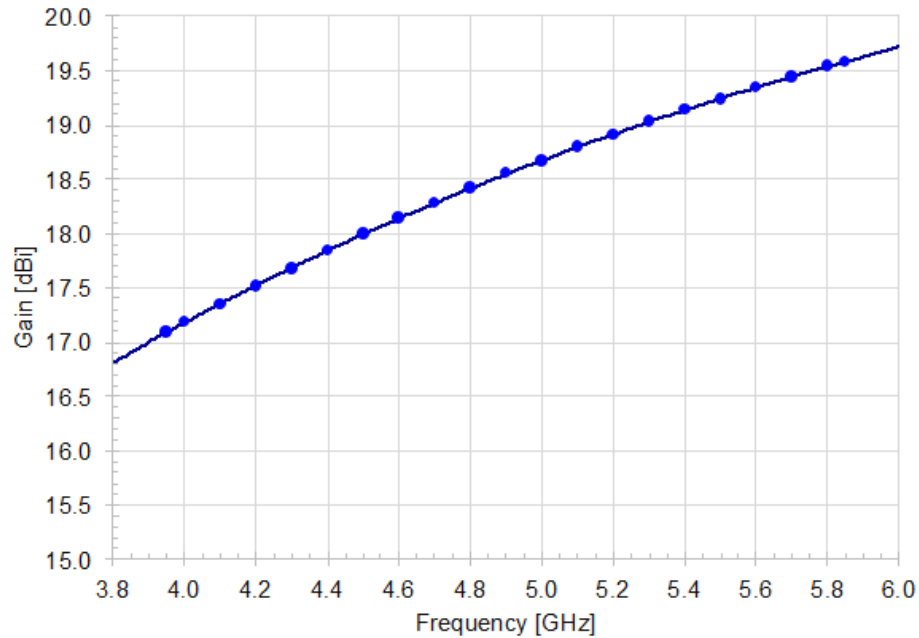
APPLICATIONS

- Automotive
- Radar Cross Section
- Radome
- Satellite
- Wireless

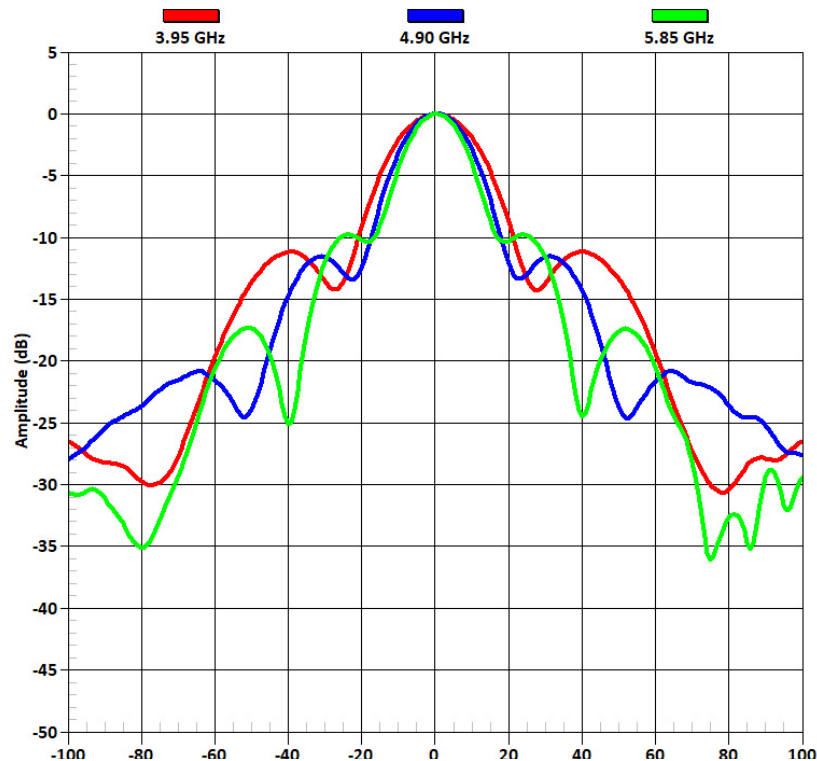
Standard Gain Horn

ANT-SGA-3.95-5.85

GAIN



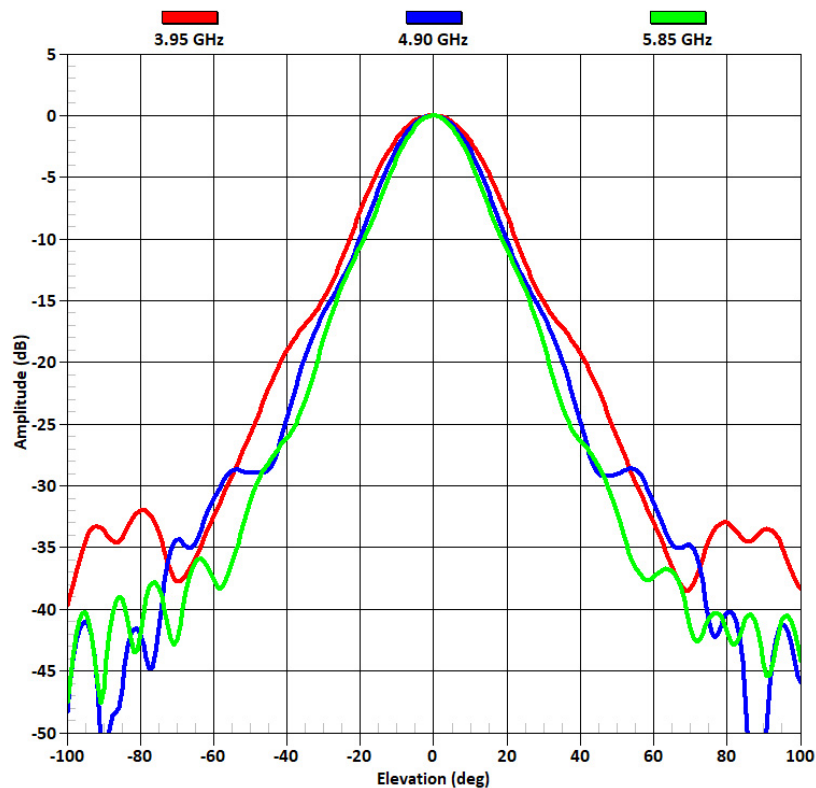
WR-187 SGH E-PLANE



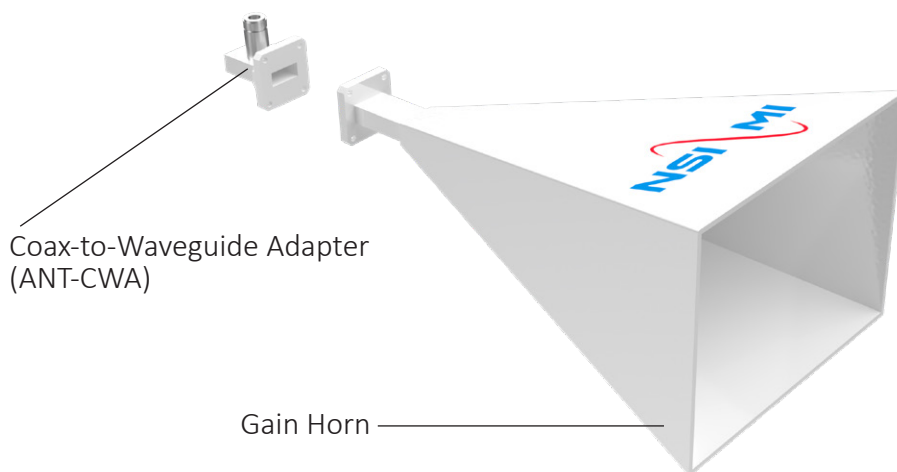
Standard Gain Horn

ANT-SGA-3.95-5.85

WR-187 SGH H-PLANE

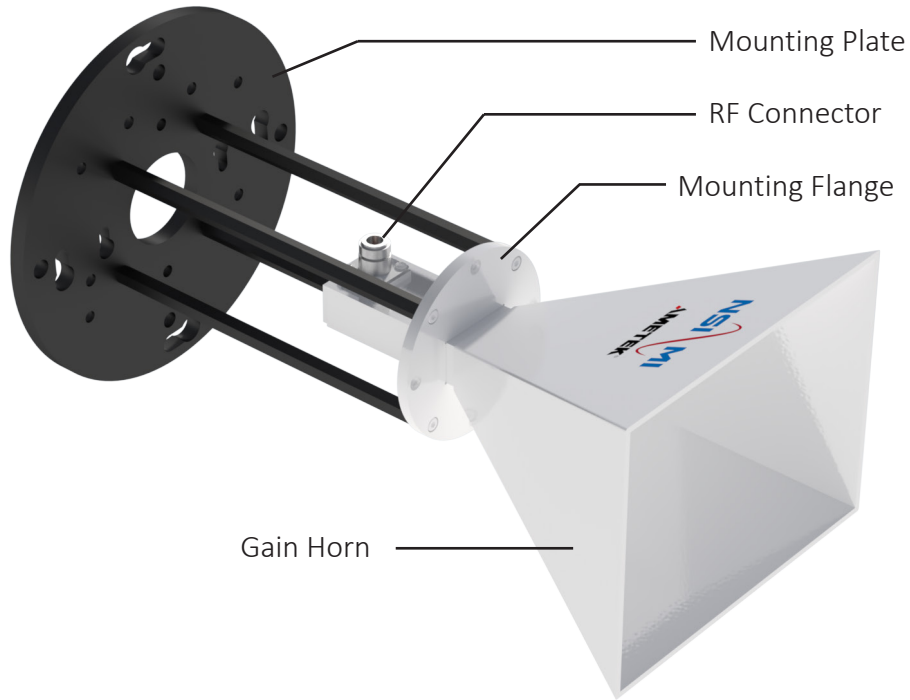


SGH WITH AN ANT-CWA

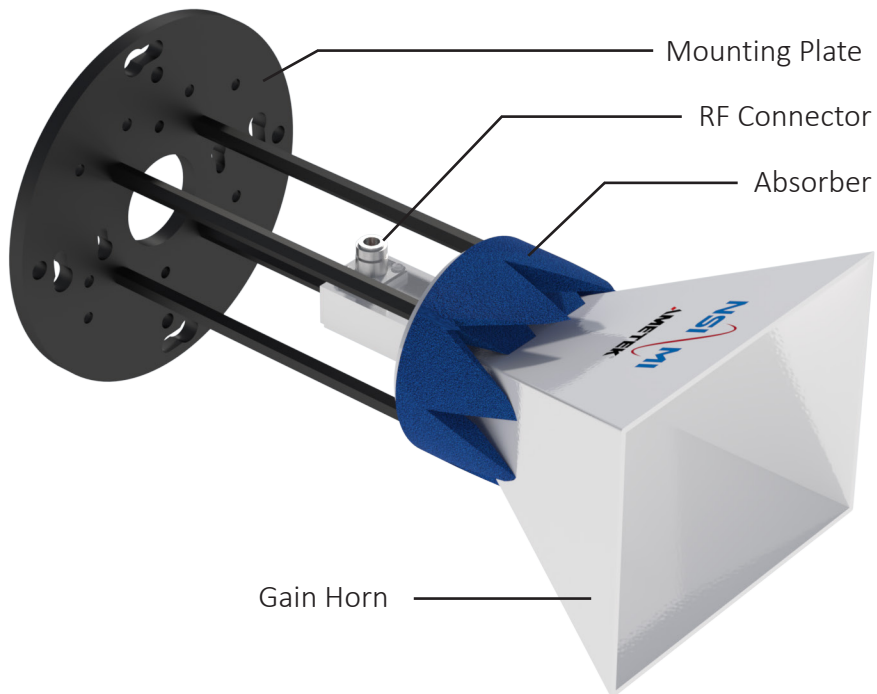


Standard Gain Horn

CAGE ONLY MODEL



CAGE WITH STANDARD ABSORBER MODEL



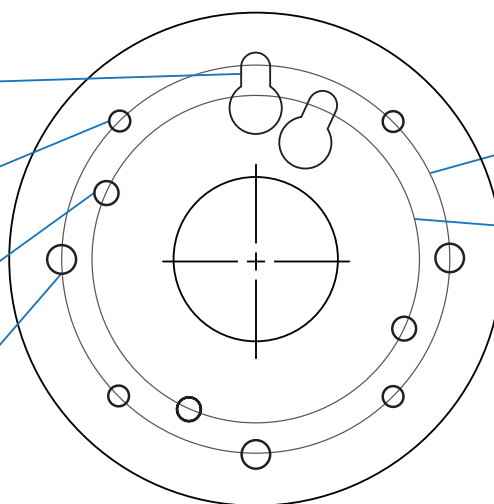
MOUNTING PLATE CONFIGURATION

2X \varnothing 11.90 mm (0.4687 in.)
THRU EQUALLY SPACED
AS SHOWN

4X \varnothing 4.80 mm (0.189 in.)
THRU EQUALLY SPACED
AS SHOWN

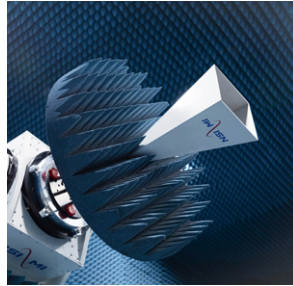
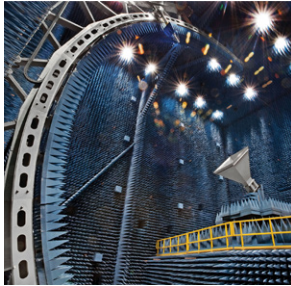
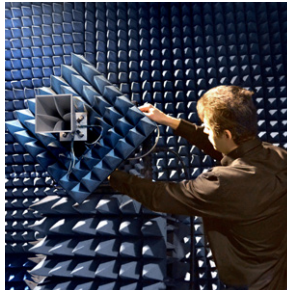
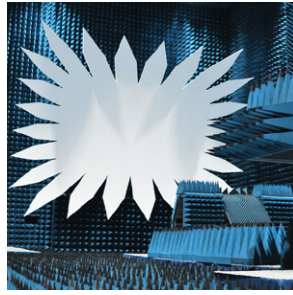
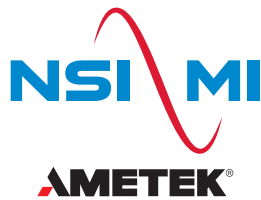
3X \varnothing 5.51 mm (0.217 in.)
THRU EQUALLY SPACED
AS SHOWN

3X \varnothing 6.60 mm (0.26 in.)
THRU EQUALLY SPACED
AS SHOWN



\varnothing 88.9 mm
(3.5 in.) BC

\varnothing 75.0 mm
(2.953 in.) BC



LOCATIONS

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Atlanta, Georgia 30024-4629
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Torrance, CA 90502-1104
USA

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S18, 1DJ
UK

+44 1246 581500

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.

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