

Certificate of Compliance

Millimeter Wave Products, Inc., hereby certifies that the devices herein were manufactured, screened as required and tested to comply with the applicable specifications and the subject purchase order.

Inspection and or tests have been performed, as applicable, on both a variable and Go/No Go basis, utilizing equipment calibrated in accordance with the requirements of

MIL-STD-45662

Calibrations are traceable to the National Institute of Standards and Technology. This certificate is based on a single evaluation of the submitted products/parts listed.

Customer: Nemko

Date: 2020-12-18

Purchase Order: Phone CC Order

Mi-Wave Work Order: 10834

CoC: CoC-2020-1398

| Part(s) | Quantity | Serial |
|-----------------|----------|--------|
| 261V-25/385 | 1 | NA |
| 261W-25/387 | 1 | NA |
| 261D-25/387 | 1 | NA |
| 261G-25/387 | 1 | NA |
| 261B-25/383 | 1 | NA |
| 410B/383/2.4mmF | 1 | NA |
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Quality Assurance: *Debra P. St. 12-18-2020*

Description

Mi-Wave's 261 Series standard gain horns are fabricated with very close tolerances to ensure the precision of every horn manufactured by MiWave. Each unit is joined to a short section of rectangular wave-guide.

Notes

S/N: NA

Electrical Specifications

| | Minimal | Typical | Maximum |
|-------------------------|---------|-----------|---------|
| Frequency | 50 GHz | | 75 GHz |
| Gain | | 25 dBi | |
| Polarization | | Linear | |
| 3 dB Beamwidth, E-Plane | | 9° | |
| 3 dB Beamwidth, H-Plane | | 10° | |
| Side Lobes, E-Plane | | 20 dB | |
| Side Lobes, H-Plane | | 20 dB | |
| VSWR | | 1.15:1 dB | |
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Physical Specifications

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|---------------|-----------------|
| Antenna Port | WR-15 Waveguide |
| Flange Type | UG-385/U Flange |
| Material Type | Aluminum |
| Finish | Gold Plated |
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Tested by: NA

Date: 2020-12-16



Description

Mi-Wave's 261 Series standard gain horns are fabricated with very closetolerances to ensure the precision of every horn manufactured by MiWave. Each unit is joined to a short section of rectangular wave-guide.

Notes

S/N: NA

Electrical Specifications

| | Minimal | Typical | Maximum |
|-------------------------|----------------|----------------|----------------|
| Frequency | 75 GHz | | 110 GHz |
| Gain | | 25 dBi | |
| Polarization | | Linear | |
| 3 dB Beamwidth, E-Plane | | 9° | |
| 3 dB Beamwidth, H-Plane | | 10° | |
| Side Lobes, E-Plane | | 20 dB | |
| Side Lobes, H-Plane | | 20 dB | |
| VSWR | | 1.15:1 dB | |
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Physical Specifications

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|---------------|-------------------|
| Antenna Port | WR-10 Waveguide |
| Flange Type | UG-387/U-M Flange |
| Material Type | Aluminum |
| Finish | Gold Plated |
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Tested by: NA

Date: 2020-12-16



Description

Mi-Wave's 261 Series standard gain horns are fabricated with very close tolerances to ensure the precision of every horn manufactured by MiWave. Each unit is joined to a short section of rectangular wave-guide.

Notes

S/N: NA

Electrical Specifications

| | Minimal | Typical | Maximum |
|-------------------------|---------|-----------|---------|
| Frequency | 110 GHz | | 170 GHz |
| Gain | | 25 dBi | |
| Polarization | | Linear | |
| 3 dB Beamwidth, E-Plane | | 9° | |
| 3 dB Beamwidth, H-Plane | | 10° | |
| Side Lobes, E-Plane | | 20 dB | |
| Side Lobes, H-Plane | | 20 dB | |
| VSWR | | 1.15:1 dB | |
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Physical Specifications

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|---------------|-------------------|
| Antenna Port | WR-06 Waveguide |
| Flange Type | UG-387/U-M Flange |
| Material Type | Brass |
| Finish | Gold Plated |
| Weight | 0.7 oz |
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Tested by: NA

Date: 2020-12-16



Description

Mi-Wave's 261 Series standard gain horns are fabricated with very closetolerances to ensure the precision of every horn manufactured by MiWave. Each unit is joined to a short section of rectangular wave-guide.

Notes

S/N: NA

Electrical Specifications

| | Minimal | Typical | Maximum |
|-------------------------|----------------|----------------|----------------|
| Frequency | 140 GHz | | 220 GHz |
| Gain | 23.5 dBi | 25 dBi | 25.8 dBi |
| Polarization | | Linear | |
| 3 dB Beamwidth, E-Plane | | 8.9° | |
| 3 dB Beamwidth, H-Plane | | 10.28° | |
| Side Lobes, E-Plane | | 20 dB | |
| Side Lobes, H-Plane | | 20 dB | |
| VSWR | | 1.15:1 dB | |
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Physical Specifications

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|---------------|-----------------|
| Antenna Port | WR-05 Waveguide |
| Flange Type | UG-387/U Flange |
| Material Type | Brass/Aluminum |
| Finish | Gold Plated |
| Weight | 0.6 oz |
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Tested by: NA

Date: 2020-12-16



Description

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Notes

S/N: NA

Electrical Specifications

| | Minimal | Typical | Maximum |
|-------------------------|----------------|----------------|----------------|
| Frequency | 33 GHz | | 50 GHz |
| Gain | 23.5 dBi | 25 dBi | |
| Polarization | | Linear | |
| 3 dB Beamwidth, E-Plane | | 7° | |
| 3 dB Beamwidth, H-Plane | | 9° | |
| Side Lobes, E-Plane | | 20 dB | |
| Side Lobes, H-Plane | | 20 dB | |
| VSWR | | 1.15:1 dB | |
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Physical Specifications

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|---------------|-----------------|
| Antenna Port | WR-22 Waveguide |
| Flange Type | UG-383/U Flange |
| Material Type | Aluminium |
| Finish | Chem Filmed |
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Tested by: NA

Date: 2020-12-16



