

# Waveguide to Coaxial Adapter    AWR90NEL

## WR90 to N Female, Square Cover Flange, End Launch

Rev 1

### Electrical

|                 |              |
|-----------------|--------------|
| Frequency Range | 8.2-12.5 GHz |
| VSWR            | 1.2 max      |

### Configuration

|                |               |                       |
|----------------|---------------|-----------------------|
| Waveguide Size | IEC           | 100                   |
|                | EIA           | WR90                  |
| Flange Type    | IEC           | UBR100                |
|                | North America | M3922/53-003(UG135/U) |
| Coax Connector | N Female      |                       |
| Body Geometry  | End Launch    |                       |

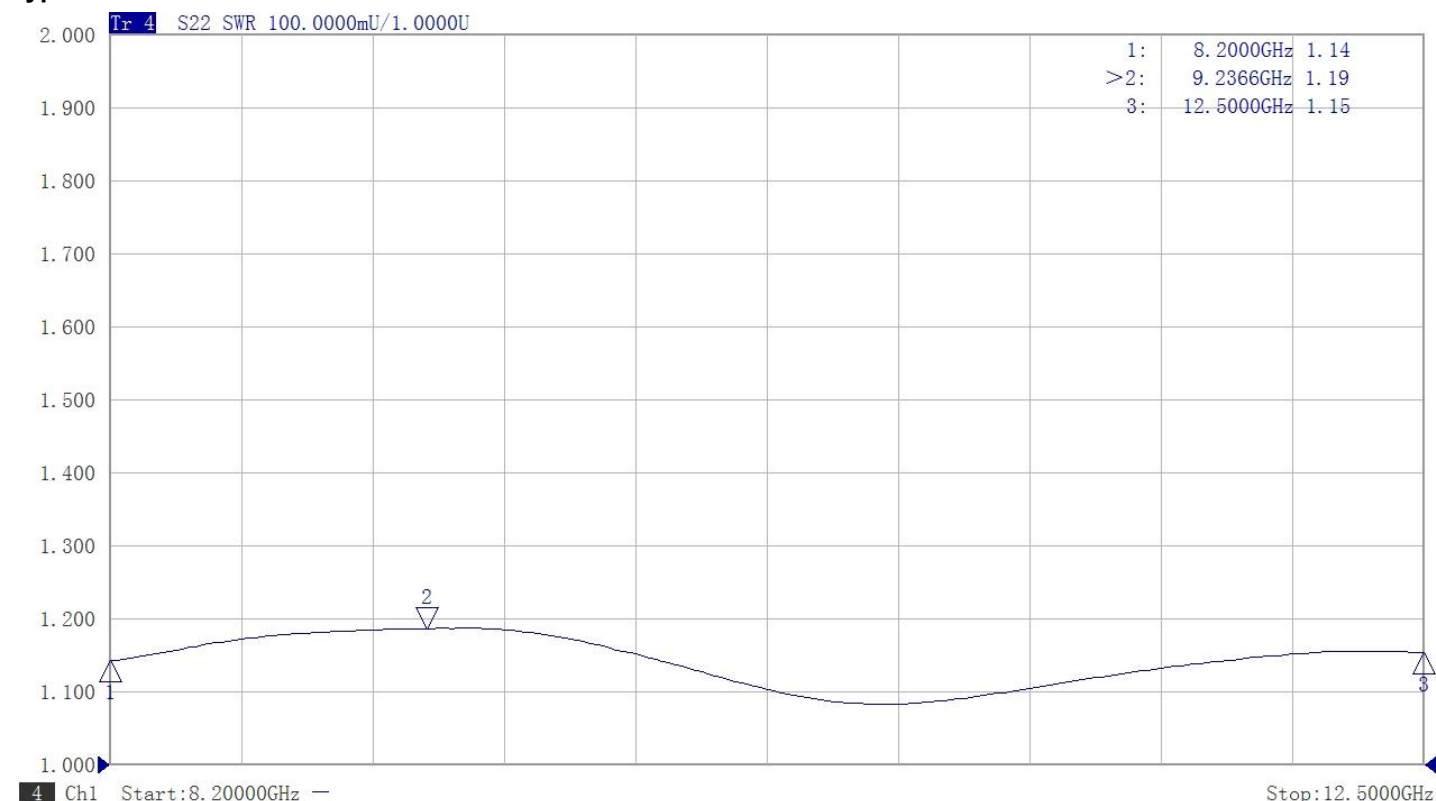
### Materials

|                |                                 |
|----------------|---------------------------------|
| Waveguide Body | Aluminum, black or grey painted |
| Connector Body | Passivated stainless steel      |
| Center Contact | Gold plated beryllium copper    |

### Mechanical & Environmental

|                     |               |
|---------------------|---------------|
| Operating Temp      | -40°C to 70°C |
| Connector Interface | MIL-STD-348   |
| RoHS                | Compliant     |

### Typical Test Data

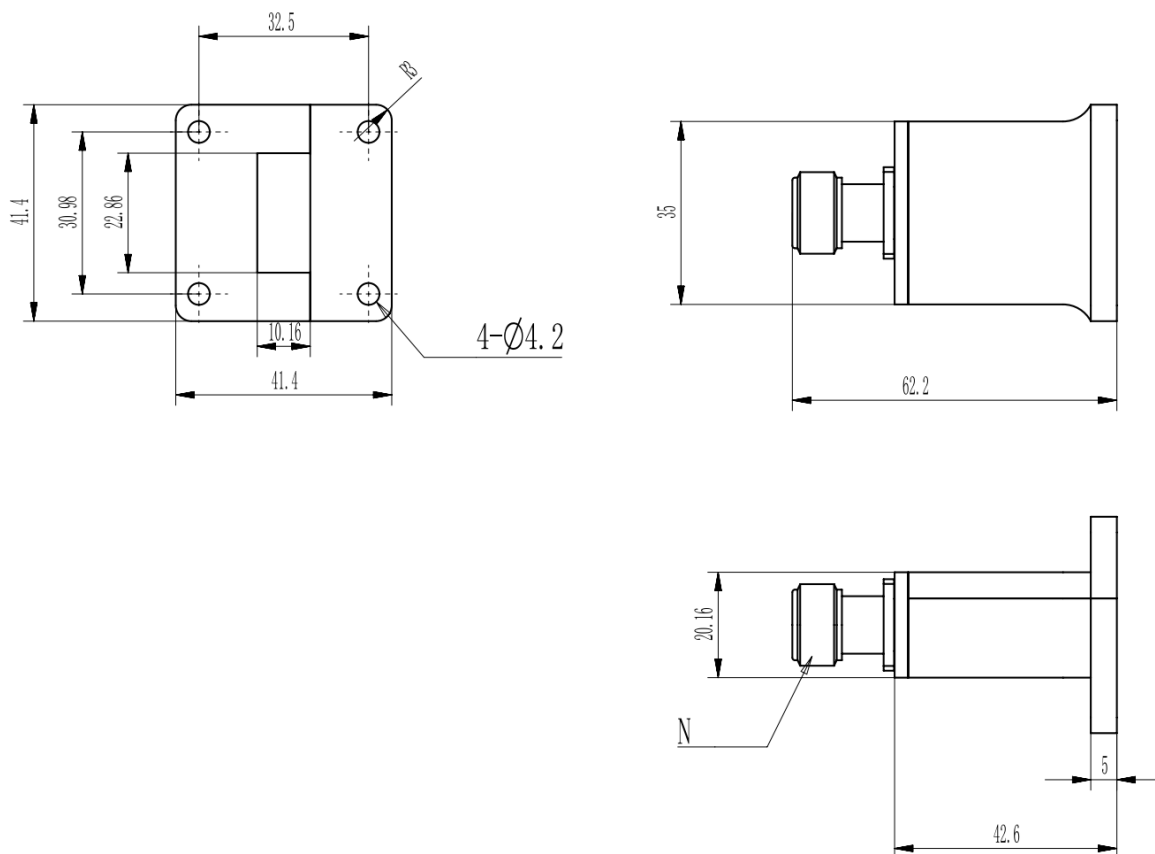


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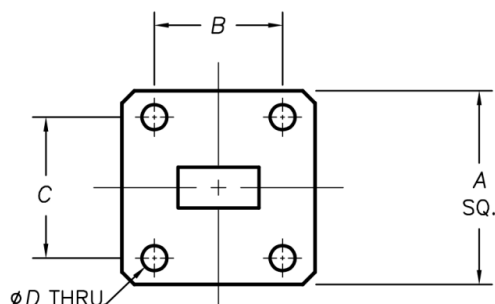
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#### Dimensions(mm)



#### Flange Comparison (Unit mm)



| WG SIZE | CONFORMING STANDARD         | A     | B     | C     | D    |
|---------|-----------------------------|-------|-------|-------|------|
| WR90    | RF ONE:AWR90NEL             | 41.4  | 30.98 | 32.5  | 4.2  |
|         | IEC60154:UBR100             | 41.40 | 30.98 | 32.52 | 4.1  |
|         | USA:MIL3922/53-003(UG135/U) | 41.28 | 30.98 | 32.52 | 4.29 |

\* The purpose of this size comparison is to provide a quick overview of different flange standards.

\* Great care has been given nevertheless there might be a few mistakes.

\* Please check the flange compatibility before ordering. Customized flanges are available.