

## FEATURES

- ❖ Linear and circular polarization applicable
- ❖ Low side lobes
- ❖ High performance
- ❖ High gain

## APPLICATIONS

- ❖ Radar systems
- ❖ Communication systems
- ❖ Sensor sub-assemblies



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## DESCRIPTION

**ALC** series lens corrected horn antennas are offered to cover the frequency range of 18 to 110 GHz. These antennas offer high gain, phase error corrected beam form and low side lobes. The dielectric lens provides not only the phase error correction, but also rugged waterproof structure. The interface of these lens corrected horn antennas are offered in standard circular and rectangular waveguide, respectively. These antennas are widely used in Radar, communication systems and sensor sub-assemblies.

## ALC Series

## TYPICAL SPECIFICATIONS

Parameters	Typical Range
Frequency Range (Typical)	18 to 110 GHz
Lens Diameter (Typical)	1 to 12 Inches
Gain (Typical)	20 to 40 dB
3 dB Beamwidth (Typical)	3 to 20 Degrees
Sidelobe Level (Typical)	-18 to -25 dB
VSWR (Typical)	1.3:1
Cross Polarization (Typical)*	-25 dB

\* Only for Rectangular interface version.

## HOW TO ORDER

### Specify Model Number:

ALC - DDD CF BW GG -XX ← Factory Reserve

↑      ↑      ↑      ↑

Circular Waveguide      Gain in dB  
Diameter in Mils      in Degrees

in GHz

OR

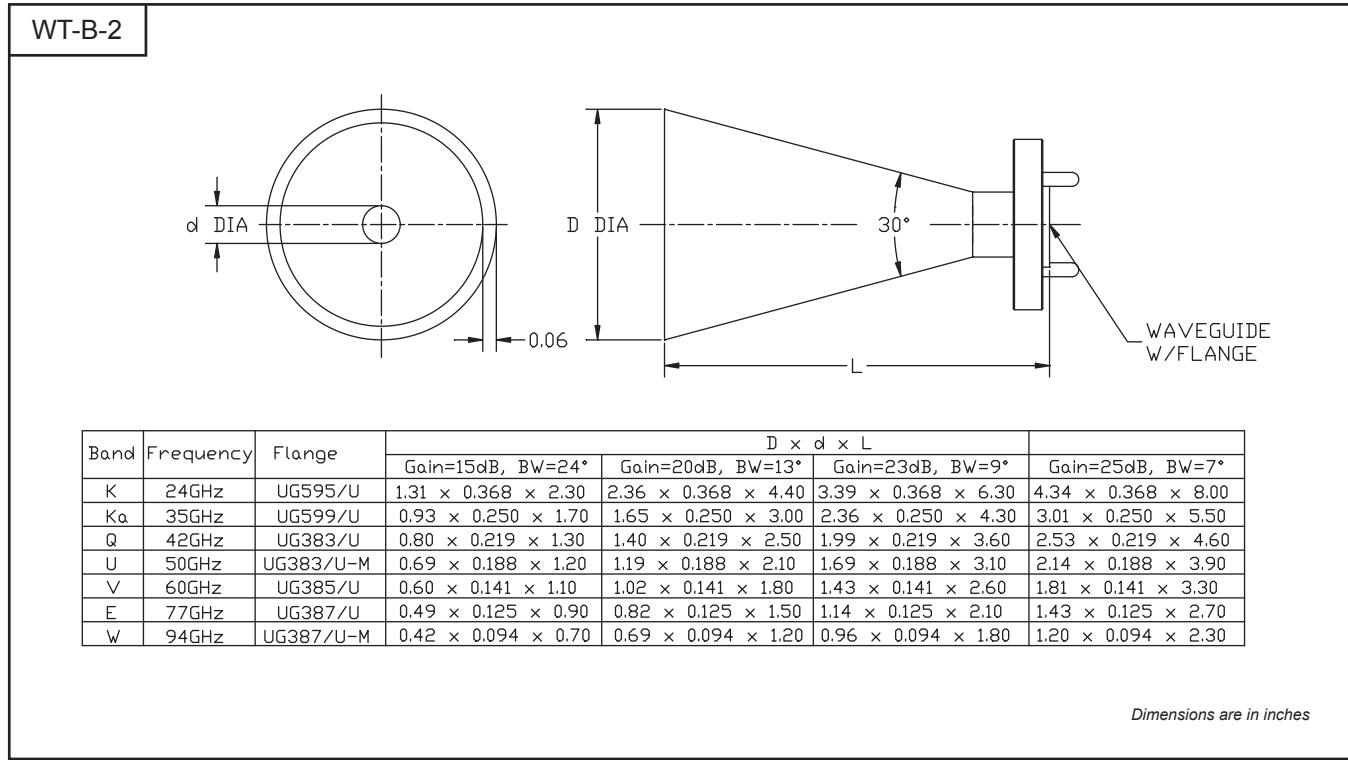
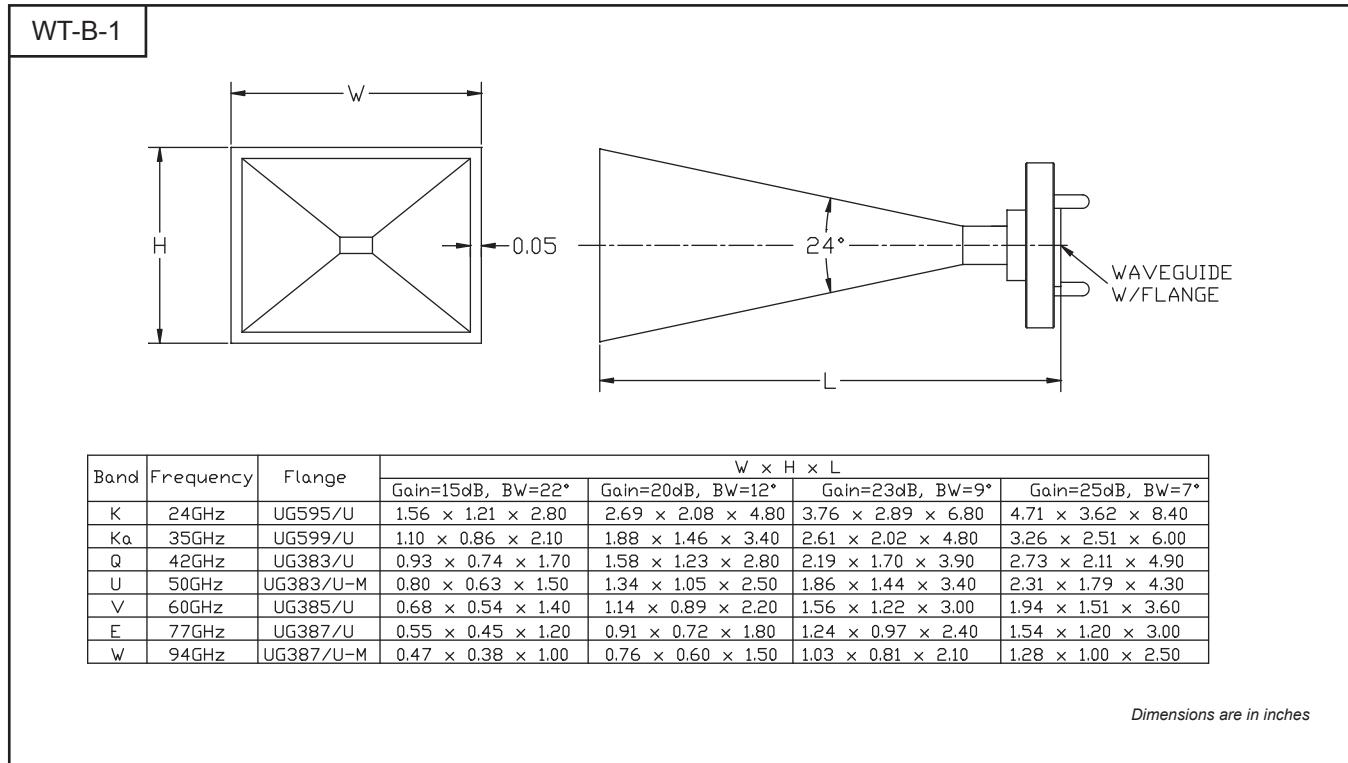
ALC - WG CF BW GG -XX ← Factory Reserve

↑      ↑      ↑      ↑

Rectangular      Gain in dB  
waveguide size      in Degrees

in GHz

Example: To order a lens corrected horn antenna with input circular waveguide 0.250" diameter and 22 dBi gain, specify ALC-25022-XX.



The flange pattern shown is for illustration purpose. Refer to Technical Reference Section for flange pattern details. The outline drawings shown are standard versions. Contact factory for your specific package requirements.