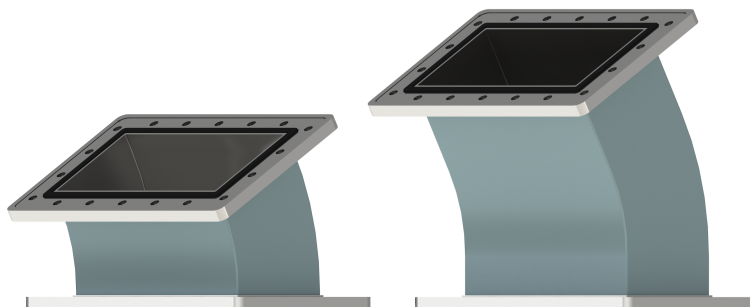


E-PLANE BENT WAVEGUIDE

WR975–RW30E / WR975–RW30E–LS



Electrical parameters

Operating band	UHF, L (according to IEEE)
Frequency range	750 ÷ 1150 MHz (0,75 ÷ 1,15 GHz)
Internal dimensions	247,65 × 123,82 mm
Wall thickness	min. 3 mm
Waveguide attenuation	0,004 dB/m
Flange attenuation	0,01 dB per flange
VSWR	max. 1,1
Peak power	max. 28 MW
Average power	max. 83 kW (steady-state thermal condition)

Conditions:

- frequency: 915 MHz
- waveguide made of aluminium 6082
- load VSWR: 1,0 : 1
- pulse parameters: 10 μ s, 300 Hz
- waveguide temperature above ambient temperature: max. 20 °C
- internal finish: bare
- external finish: bare

Mechanical parameters

Waveguide material	Al (AW6082) / SS (316L)
Flange material	Al (AW6082) / SS (316L)
Internal surfaces	bare / additional finish
External surfaces	bare / powder coated
Gasket	Viton (fluoroelastomer)
Operating temperature	max 75 °C
Operating pressure	1,035 bar (absolute)
Gas pressure drop	≤ 7 mbar/h

Environmental conditions

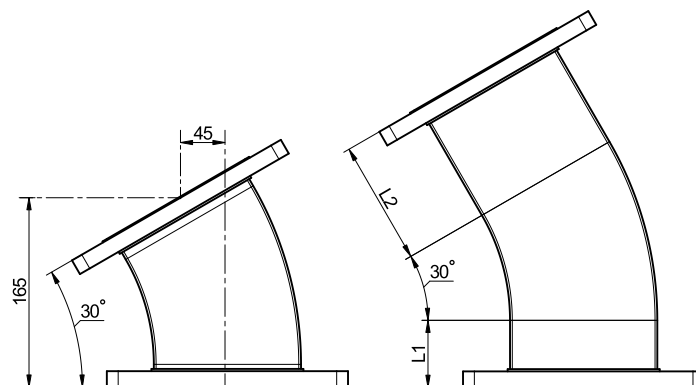
The waveguide may be filled with nitrogen N₂ or dry air at an absolute pressure $\leq 1,05$ bar.

Waveguide dimensions

The standard WR975-RW30E waveguide bent at an angle of 30° has dimensions A=165 mm, B=45 mm.

LS series waveguides are bent at an angle of 30° and have extended arms. The arm length is arbitrary, provided that the sum of dimensions L1 and L2 does not exceed 300 mm.

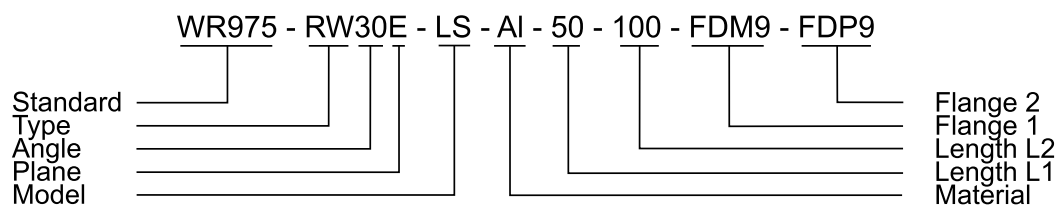
The standard length tolerance is ± 1 mm.



Microwave flanges

CPR975F	Connector Pressurized Rectangular Flat
CPR975G	Connector Pressurized Rectangular Grooved
FDP9	Flange Design Plain
FDM9	Flange Design Modified (Grooved)

Ordering code



Example ordering code for WR975-RW30E waveguide:

WR975 - RW30E - AI - FDM9 - FDP9

Example ordering code for WR975-RW30E-LS waveguide:

WR975 - RW30E - LS - AI - 50 - 100 - FDM9 - FDP9

Other requirements should be added in the form of a description.