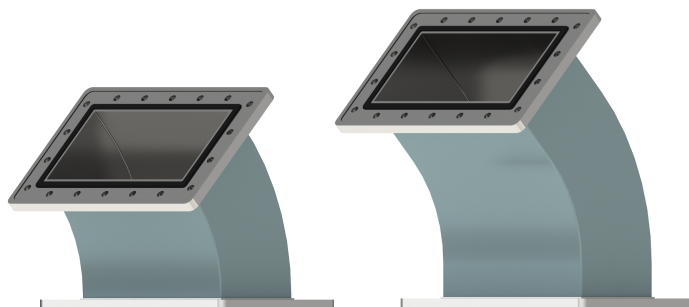


E-PLANE BENT WAVEGUIDE

WR975–RW45E / WR975–RW45E–LS



Electrical parameters

Operating band	UHF, L (per IEEE)
Frequency range	750 ÷ 1150 MHz (0.75 ÷ 1.15 GHz)
Inner 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 (thermal steady state)

Conditions:

- frequency: 915 MHz
- waveguide made of aluminum 6082
- load VSWR: 1.0 : 1
- pulse parameters: 10 μ s, 300 Hz
- waveguide temperature above ambient: max. 20 °C
- internal finish: bare
- external finish: bare

Mechanical parameters

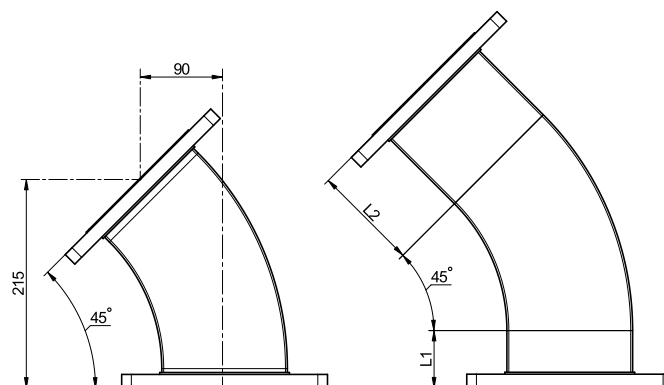
Waveguide material	Al (AW6082) / SS (316L)
Flange material	Al (AW6082) / SS (316L)
Internal surfaces	bare / additional finish
External surfaces	bare / powder coated
Gasket	Viton (fluoroelastomer)
Operating temperature	max 75 °C
Working pressure	1.035 bar (absolute)
Gas pressure drop	≤ 7 mbar/h

Environmental conditions

The waveguide can be filled with nitrogen N₂ or dry air at an absolute pressure of ≤ 1.05 bar.

Waveguide dimensions

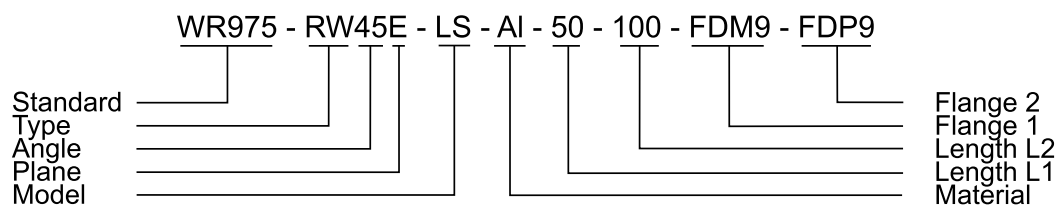
A typical WR975-RW45E waveguide bent at 45° has dimensions A=215 mm, B=90 mm. LS series waveguides are bent at 45° and have extended arms. The arm length is arbitrary, provided that the sum of dimensions L1 and L2 does not exceed 300 mm. The length tolerance is standardly ± 1 mm.



Microwave flanges

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

Ordering code



Example order code for the WR975-RW45E waveguide:

WR975 - RW45E - AI - FDM9 - FDP9

Example order code for the WR975-RW45E-LS waveguide:

WR975 - RW45E - LS - AI - 50 - 100 - FDM9 - FDP9

Any remaining requirements should be added in the form of a description.