

STRAIGHT WAVEGUIDE WR975 WG4 R9 WR975-SW-AI



Electrical parameters

Operating band	UHF, L (according to IEEE)
Frequency range	757 ÷ 1153 MHz (0,757 ÷ 1,153 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. 1,05
Peak power	28 MW
Average power	83 kW (thermal steady state)

Conditions:

- frequency: 915 MHz
- dielectric medium: N₂ 1,035 bar (abs)
- load VSWR: 1,0 : 1
- pulse parameters: 10 μs, 300 Hz
- waveguide temperature above ambient temperature: max. 20 °C
- internal finish: bare
- external finish: bare

Mechanical parameters

Waveguide material	aluminium (AW-6082)
Flange material	Al (AW-6082)
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

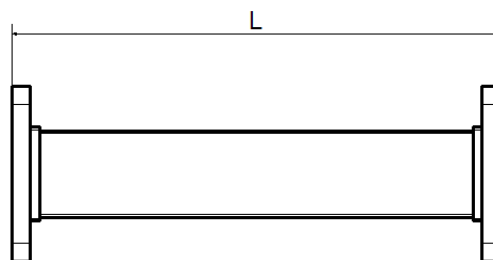
Environmental conditions

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

During operation and storage, condensation of water on the waveguide surfaces must be prevented.

Waveguide length

The ordered waveguide length L should be within the range of 50 to 600 mm. Length tolerance is ± 1 mm as standard ($\pm 0,1$ mm on request).

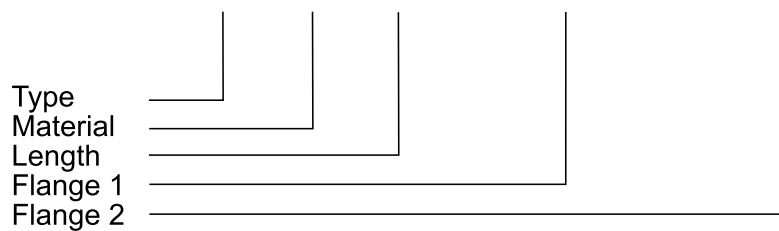


Microwave flanges

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

Ordering code

WR975 - SW - AI - 250 - CPR975F - CPR975G



Additional parameters should be specified in the form of a description.