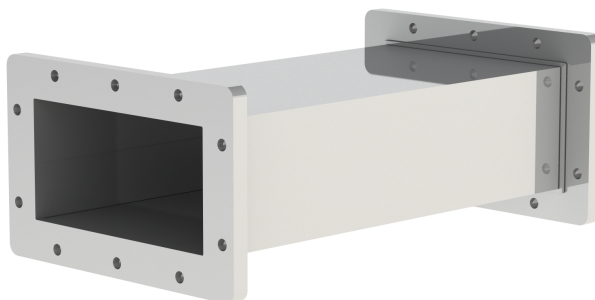


STRAIGHT WAVEGUIDE WR650 WG6 R14 WR650-SW-AI



Electrical parameters

Operating band	L (wg IEEE)
Frequency range	1120 ÷ 1720 MHz (1,12 ÷ 1,72 GHz)
Internal dimensions	165,10 × 82,55 mm
Wall thickness	min. 3 mm
Waveguide attenuation	0,007 dB/m
Flange attenuation	0,02 dB per flange
VSWR	max 1,05
Peak power	52 MW (dielectric limiting factor)
Average power	31 kW (thermal steady state)

Conditions:

- frequency: 1300 MHz
- dielectric medium: N₂ 1 bar
- load VSWR: 1.0 : 1
- pulse parameters: 10 μs, 10 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	untreated / additional finish
External surfaces	untreated / powder-coated
Gasket	Viton (fluoroelastomer)
Operating temperature	max 75 °C
Operating pressure	≤ 1 bar (absolute)
Gas leak rate	$< 2,8$ mbar l/s ($< 0,01$ m ³ /h)

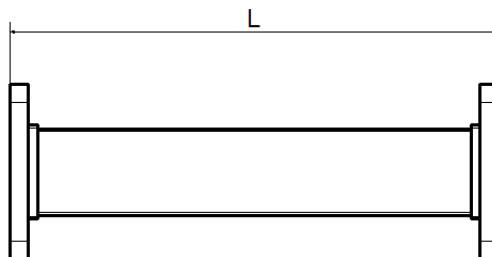
Environmental conditions

The waveguide may be filled with SF₆ gas, nitrogen N₂, dry air at an absolute pressure of 1×10^5 Pa (1 bar), or evacuated to a maximum absolute pressure of 1×10^{-1} Pa (1×10^{-3} mbar).

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

Waveguide length

The ordered waveguide length L shall be in the range from 100 to 600 mm. Standard length tolerance is ± 1 mm (on request $\pm 0,1$ mm).

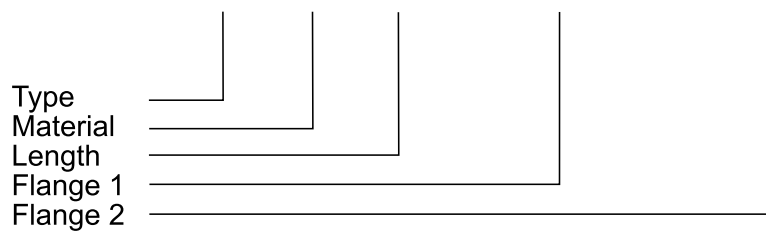


Microwave flanges

CPR650F	Connector Pressurized Rectangular Flat
CPR650G	Connector Pressurized Rectangular Grooved
FDP14	Flange Design Plain
FDM14	Flange Design Modified (Grooved)

Ordering code

WR650 - SW - AI - 250 - CPR650F - CPR650G



Additional parameters should be specified as a description.