

STRAIGHT WAVEGUIDE WR284-SW-AI



Electrical parameters

Operating band	S (IEEE)
Frequency range	2600 ÷ 3950 MHz (2,60 ÷ 3,95 GHz)
Internal dimensions	72,14 × 34,04 mm
Wall thickness	2,03 mm
Waveguide attenuation	0,03 dB/m
Flange attenuation	0,1 dB
Peak power	max. 19 MW
Average power	max. 5 kW (CW)

Technical conditions:

- dielectric medium: SF₆ 3 bar or vacuum 1×10^{-3} mbar
- load VSWR: 1.0 : 1
- pulse parameters: 15 μ s, 20 Hz
- waveguide temperature: max. 40 °C
- internal finish: bare
- external finish: powder coating

Mechanical parameters

Waveguide material	aluminium (AW-6061)
Flange material	Al (AW-6082)
Internal finish	bare / chromate conversion
External finish	bare / powder coated
Gasket material	Viton / conductive elastomer
Operating temperature	max. 75 °C
Operating pressure	≤ 2 bar (absolute)
Operating vacuum	$\leq 1 \times 10^{-3}$ mbar (absolute)
Gas leak rate	$< 5 \times 10^{-3}$ mbar l/s ($< 0,00001$ m ³ /h)

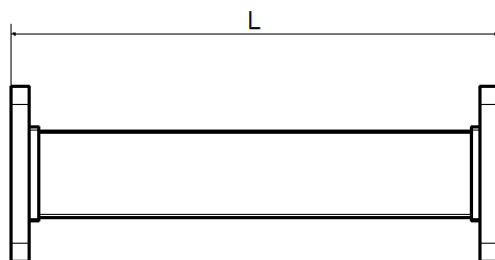
Environmental conditions

The waveguide may be filled with SF₆ gas, nitrogen N₂, dry air at an absolute pressure of 2×10^5 Pa (2 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 2000 mm. Standard length tolerance is ± 1 mm (on request $\pm 0,1$ mm).

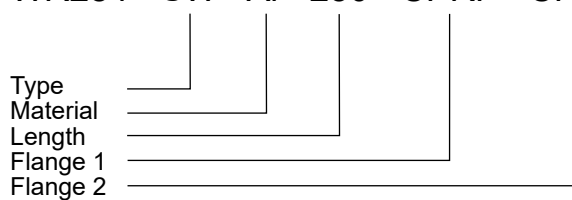


Microwave flanges

CPRF26	Connector Pressurized Rectangular Flat
CPRG26	Connector Pressurized Rectangular Grooved
FDP26	Flange Design Plain
FDM26	Flange Design Modified (Grooved)

Ordering code

WR284 - SW - AI - 250 - CPRF - CPRG



Additional parameters should be specified as a description.