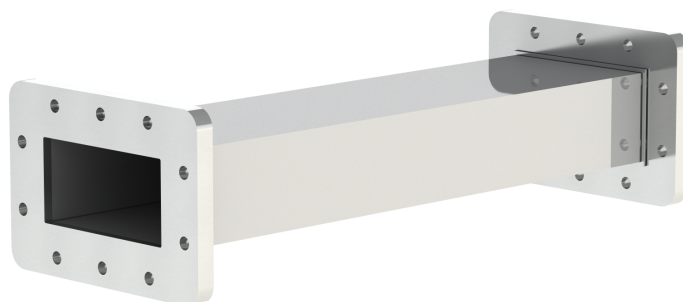


STRAIGHT WAVEGUIDE WR284 WG10 R32 WR284-SW-AI



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	min. 3 mm
Waveguide attenuation	max. 0,027 dB/m
Flange attenuation	0,02 dB per flange
VSWR	max 1,1
Peak power	max. 22 MW
Average power	max. 4 kW (CW)

Conditions:

- frequency: 2998 MHz
- 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 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 finishing
External surfaces	bare / powder coated
Gasket material	Viton / conductive elastomer
Operating temperature	max. 75 °C
Operating pressure	≤ 3 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)

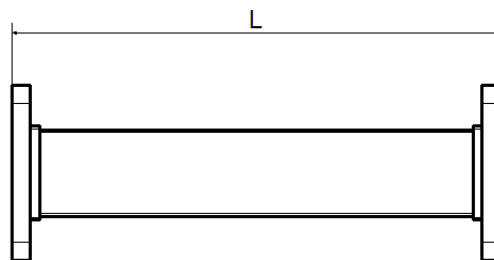
Environmental conditions

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 1000 mm. Standard length tolerance is ± 1 mm (on request $\pm 0,1$ mm).

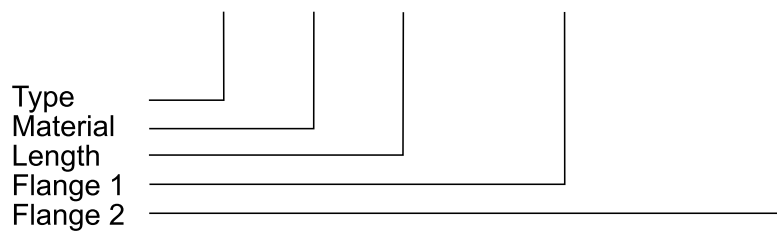


Microwave flanges

CPR284F	Connector Pressurized Rectangular Flat
CPR284G	Connector Pressurized Rectangular Grooved
FDP26	Flange Design Plain
FDM26	Flange Design Modified (Grooved)

Ordering code

WR284 - SW - AI - 250 - CPR284F - CPR284G



Additional parameters should be specified as a description.