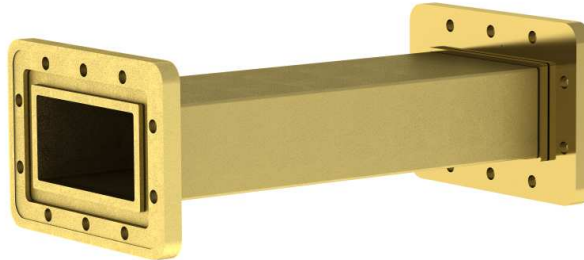


STRAIGHT WAVEGUIDE WR284–SW–Br



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 / 3,175 mm
Waveguide attenuation	0,035 dB/m
Flange attenuation	0,1 dB
Peak power	max. 16 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	brass (MO58)
Flange material	brass (MO58); stainless steel (316L)
Internal finish	bare / silver plated
External finish	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	$< 1 \times 10^{-6}$ mbar l/s ($< 4 \times 10^{-6}$ m ³ /h)

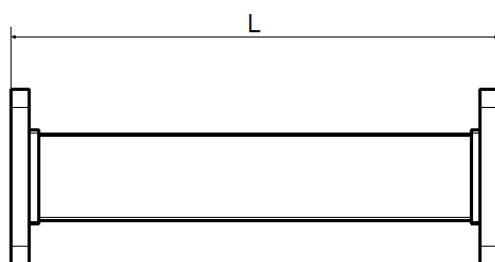
Environmental conditions

The waveguide may be filled with SF₆ gas, nitrogen N₂, dry air at an absolute pressure of 3×10^5 Pa (3 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).

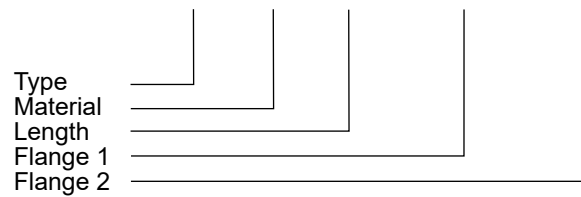


Microwave flanges

MFM32	Machined Flange Male
MFF32	Machined Flange Female
CPRF32	Connector Pressurized Rectangular Flat
CPRG32	Connector Pressurized Rectangular Grooved

Ordering code

WR284 - SW - Br - 250 - CPRF - CPRG



Additional parameters should be specified as a description.