

STRAIGHT WAVEGUIDE WR340–SW–AI



Electrical Parameters

Operating band	S (per IEEE); E (per NATO)
Frequency range	2200 ÷ 3300 MHz (2.2 ÷ 3.3 GHz)
Internal dimensions	86.36×43.18 mm; wall 2.03 mm
Waveguide attenuation	0.02 dB/m – 0.04 dB/m
Flange attenuation	0.1 dB
Peak power	max. 40 MW (4.5 μ s; 30 Hz)
Average power	max. 6 kW (CW)

Mechanical Parameters

Waveguide material	aluminium (AW-6061)
Flange material	Al (AW-6082)
Internal surfaces	bare / chromate coating
External surfaces	bare / powder coating
Gasket	Viton (fluoroelastomer)
Operating temperature	max 75 °C
Operating pressure	≤2 bar (absolute)
Operating vacuum	≤1×10 ⁻³ mbar (absolute)
Gas leak rate*	<5×10 ⁻³ mbar l/s (<0.00001 m ³ /h)

* tested with He gas at 2 bar

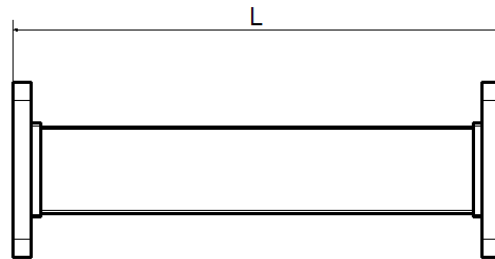
Environmental Conditions

The waveguide may be filled with SF₆ gas, nitrogen N₂, or dry air at an absolute pressure of 2×10^5 Pa (2 bar) or evacuated to an absolute pressure of max. 1×10^{-1} Pa (1×10^{-3} mbar).

Condensation of water on waveguide surfaces must be prevented during operation and storage.

Waveguide Length

The ordered waveguide length L shall be within the range of 100 to 2000 mm. Standard length tolerance is ± 1 mm (± 0.1 mm on request).

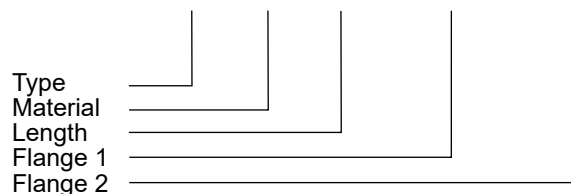


Microwave Flanges

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

Order Code

WR340 - SW - Al - 250 - CPRF - CPRG



Additional parameters should be specified in the order description.