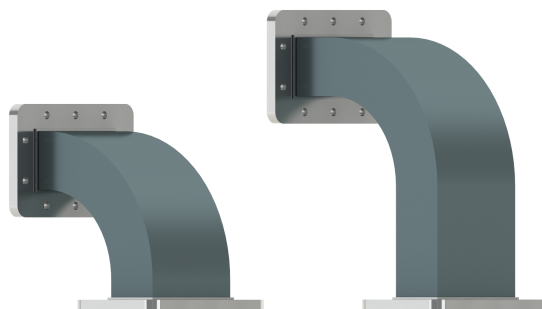


WAVEGUIDE E-PLANE BEND

WR284–RW90E / WR284–RW90E–LS



Electrical Parameters

Operating band	S (per 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	0,021 dB/m
Flange attenuation	0,02 dB per flange
VSWR	max. 1,10
Peak power	max. 39 MW
Average power	max. 8 kW (CW)

Conditions:

- frequency: 2998 MHz
- waveguide made of Cu-ETP copper
- 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	Al (AW6082) / Cu-ETP (AW004A) / SS (316L)
Internal surfaces	raw / additional finishing
External surfaces	raw / powder coated
Seal	Viton (fluoroelastomer)
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 ($< 0,00002$ m ³ /h)

Environmental Conditions

The waveguide may be filled with SF₆ gas, N₂ nitrogen, 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).

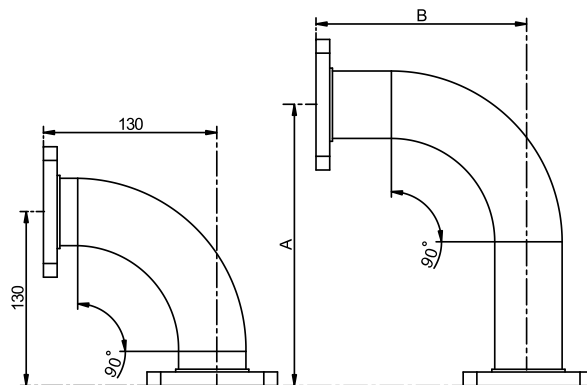
Waveguide Dimensions

A typical WR284-RW90E waveguide bent at a 90° angle has dimensions A=130 mm, B=130 mm.

LS series waveguides are bent at a 90° angle and have extended arms.

The arm length is arbitrary, provided that dimension A does not exceed 600 mm.

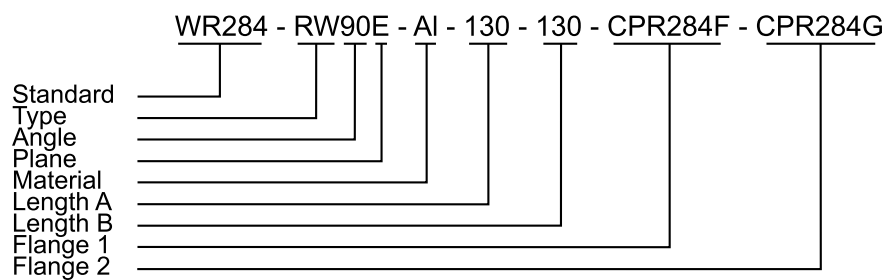
Length tolerance is standardly ± 1 mm ($\pm 0,1$ mm on request).



Microwave Flanges

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

Ordering Code



Remaining parameters should be added in descriptive form.