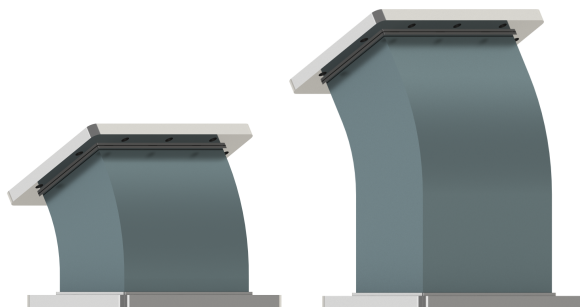


WAVEGUIDE E-PLANE BEND

WR650–RW30E / WR650–RW30E–LS



Electrical Parameters

Operating band	L (per IEEE)
Frequency range	1120 ÷ 1720 MHz (1,12 ÷ 1,72 GHz)
Internal dimensions	165,10×82,55 mm
Waveguide attenuation	0,006 dB/m
Flange attenuation	0,02 dB per flange
VSWR	max. 1,05
Peak power	max. 52 MW (dielectric limiting factor)
Average power	max. 57 kW (thermal steady state)

Conditions:

- frequency: 1300 MHz
- waveguide made of Cu-ETP copper
- dielectric medium: N₂ 1 bar
- load VSWR: 1.0 : 1
- pulse parameters: 10 μs, 10 Hz
- waveguide temperature above ambient temperature: max. 20 °C
- internal finish: bare
- external finish: bare

Mechanical Parameters

Waveguide material	Al (AW6082) / Cu-ETP (CW004A) / SS (316L)
Internal surfaces	untreated / additional finish
External surfaces	untreated / powder-coated
Gasket	Viton (fluoroelastomer)
Operating temperature	max 75 °C
Operating pressure	≤ 1 bar (absolute)
Gas leak rate	$< 2,8$ mbar l/s ($< 0,01$ m ³ /h)

Environmental Conditions

The waveguide may be filled with SF₆ gas, N₂ nitrogen, or dry air at an absolute pressure of 1×10^5 Pa (1 bar).

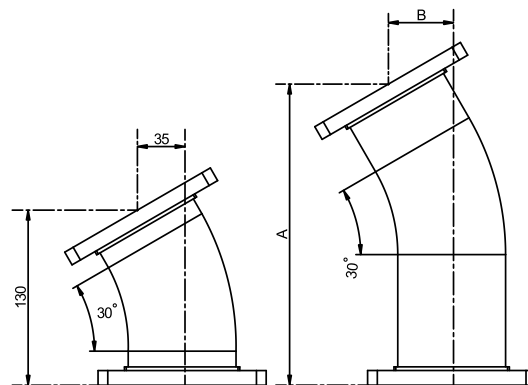
Waveguide Dimensions

A typical WR650-RW30E waveguide bent at a 30° angle has dimensions A=130 mm, B=35 mm.

LS series waveguides are bent at a 30° angle and have extended arms.

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

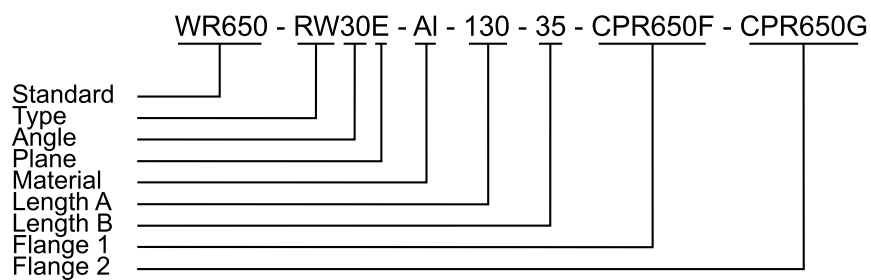
Length tolerance is standardly ± 1 mm ($\pm 0,1$ mm on request).



Microwave Flanges

CPR650F	Connector Pressurized Rectangular Flat
CPR650G	Connector Pressurized Rectangular Grooved
FDP14	Flange Design Plain
FDM14	Flange Design Modified (Grooved)

Ordering Code



Remaining parameters should be added as a description.