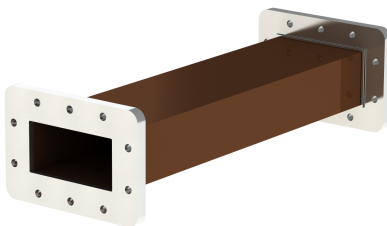


## STRAIGHT WAVEGUIDE WR340 WG9A R26 WR340-SW-Cu



### Electrical Parameters

|                       |                                 |
|-----------------------|---------------------------------|
| Operating band        | S (per IEEE)                    |
| Frequency range       | 2200 ÷ 3300 MHz (2.2 ÷ 3.3 GHz) |
| Internal dimensions   | 86.36×43.18 mm                  |
| Waveguide attenuation | 0.016 dB/m                      |
| Flange attenuation    | 0.02 dB per flange              |
| VSWR                  | max. 1,10                       |
| Peak power            | max. 92 MW                      |
| Average power         | max. 12 kW (CW)                 |

#### Conditions:

- frequency: 2465 MHz
- dielectric medium: SF<sub>6</sub> 2 bar or vacuum  $1 \times 10^{-3}$  mbar
- load VSWR: 1.0 : 1
- pulse parameters: 4.5  $\mu$ s, 30 Hz
- waveguide temperature above ambient temperature: max. 20 °C
- internal finish: bare
- external finish: bare

## Mechanical Parameters

|                       |                                                                |
|-----------------------|----------------------------------------------------------------|
| Waveguide material    | copper Cu-ETP (CW004A)                                         |
| Flange material       | Br (MO58) / SS (316L)                                          |
| Internal surfaces     | bare / additional finishing                                    |
| External surfaces     | bare                                                           |
| Gasket                | Viton (fluoroelastomer)                                        |
| Operating temperature | max 75 °C                                                      |
| Operating pressure    | $\leq 2$ bar (absolute)                                        |
| Operating vacuum      | $\leq 1 \times 10^{-3}$ mbar (absolute)                        |
| Gas leak rate*        | $< 5 \times 10^{-3}$ mbar l/s ( $< 0.00001$ m <sup>3</sup> /h) |

\* tested with He gas at 2 bar pressure

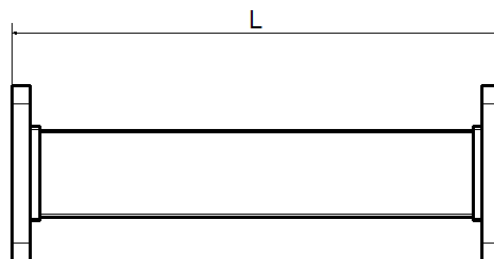
## Environmental Conditions

The waveguide may be filled with SF<sub>6</sub> gas, nitrogen N<sub>2</sub>, or dry air at an absolute pressure of  $2 \times 10^5$  Pa (2 bar) or evacuated to an absolute pressure of max.  $1 \times 10^{-1}$  Pa ( $1 \times 10^{-3}$  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 50 to 1000 mm. Standard length tolerance is  $\pm 1$  mm ( $\pm 0.1$  mm on request).

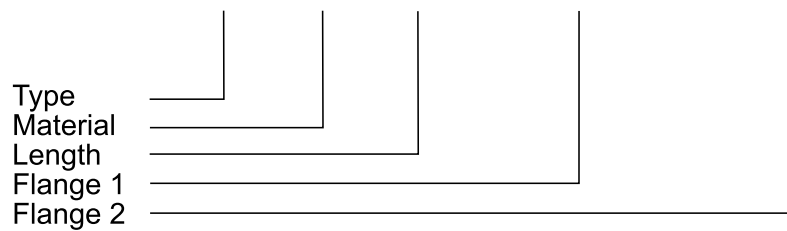


## Microwave Flanges

|         |                                           |
|---------|-------------------------------------------|
| CPR340F | Connector Pressurized Rectangular Flat    |
| CPR340G | Connector Pressurized Rectangular Grooved |
| FDP26   | Flange Design Plain                       |
| FDM26   | Flange Design Modified (Grooved)          |

## Order Code

WR340 - SW - Cu - 250 - CPR340F - CPR340G



Additional parameters should be specified in the order description.