Waveguide-to-waveguide adapters

Waveguide-to-waveguide adapters are designed to connect waveguide devices with various cross-sections and flange types. The adapters are made of aluminum alloy and nickel plated. Machining quality of waveguide flanges in combination with geometrical parameters of the waveguide provide low loss and reflection level, high stability of microwave characteristics and absence of energy loss in flanged connection.

Specification

Model	Cross-section, mm	Frequency range, GHz	Fig.
Waveguide-to-waveguide adapter 28.5 × 12.6-WR112	28.5 × 12.6 – 28.449 × 12.624	6.85 ... 9.93	1
Waveguide-to-waveguide adapter 23 × 10-WR90	23 × 10 – 22.860 × 10.160	8.2 ... 12.05	2
Waveguide-to-waveguide adapter 23 × 10-23 × 5	23 × 10 – 23 × 5	9 ... 11	3
Waveguide-to-waveguide adapter 16 × 8-WR62	16 × 8 – 15.799 × 7.899	11.9 ... 17.99	4
Waveguide-to-waveguide adapter 11 × 5.5-WR42	11 × 5.5 – 10.668 × 4.318	17.6 ... 25.95	5
Waveguide-to-waveguide adapter 7.2 × 3.4-WR28	7.2 × 3.4 – 7.112 × 3.556	26.4 ... 37.5	6
Waveguide-to-waveguide adapter 5.2 × 2.6-WR22*	5.2 × 2.6 – 5.690 × 2.845	37.5 ... 50	7
Waveguide-to-waveguide adapter 5.2 × 2.6SH-WR22**	5.2 × 2.6 – 5.690 × 2.845	37.5 ... 50	8

* Flange 5.2 × 2.6, design 2, version 1 as per GOST 51914-2002

** Flange 5.2 × 2.6, design 1, version 1 as per GOST 51914-2002

Dimensions

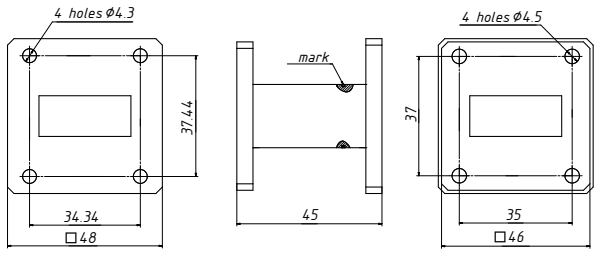

Fig. 1

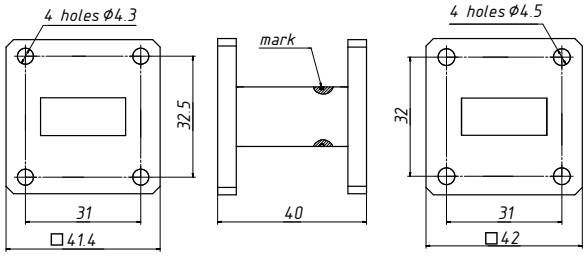

Fig. 2

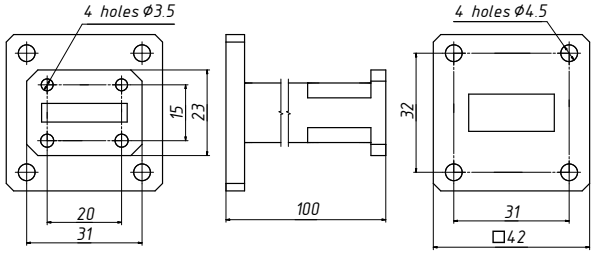

Fig. 3

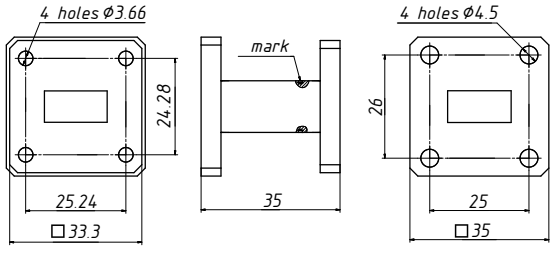

Fig. 4

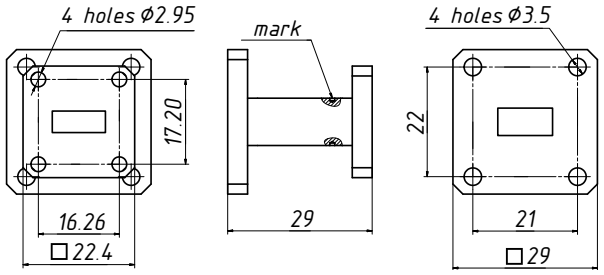

Fig. 5

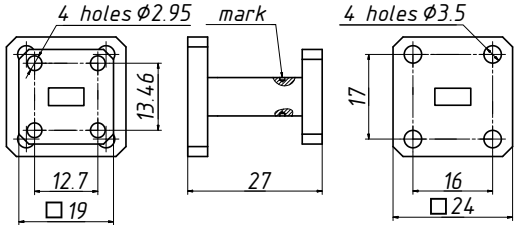

Fig. 6

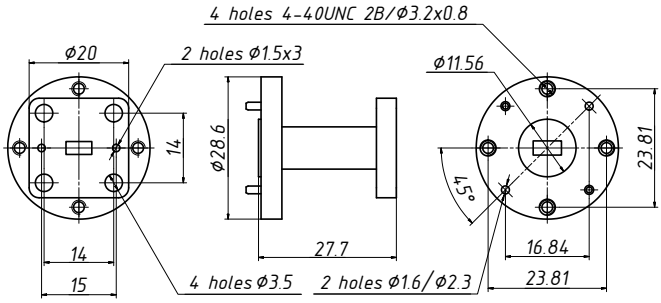

Fig. 7

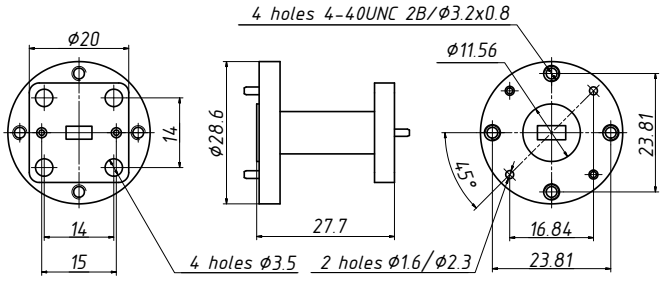

Fig. 8

Ordering example:

- PVV5.2 × 2.6-WR22 Waveguide-to-waveguide adapter with 5.2 × 2.6 mm and 5.690 × 2.845 mm cross-sections.