

Flange adapter

Gapwaves offers an easy-to-mount flange adapter for the W-band. By using Gapwaves innovative waveguide technology the adapter removes the need of electrical contact and the need for screws. Sustainable to use in high-speed production lines, millimeter wave laboratories and high-frequency packaging.

Gapwaves Flange Adapter in summary

- Saves time when assembling measurement circuits
- Low losses in high-frequency interfaces
- No electrical contact required



Gapwaves Technology

Gapwaves waveguides is a novel packaging technology for millimeter wave and Terahertz circuits and components. The technology is based on an Artificial Magnetic Conductor that enables multilayer waveguide structures to be built without the need for electrical contact between layers and thus paving the way for lowest manufacturing cost and highest waveguide performance. Gapwaves versatile waveguide technology provides unique possibilities for deep integration of antennas and millimeter wave to Terahertz electronics.

About Gapwaves

Gapwaves AB originates from research conducted at Chalmers University of Technology and was founded in 2011 to commercialize inventions for efficient wireless communication. The office is located in Gothenburg, Sweden. Our solutions enhances the performance of automotive radars, 5G base stations, microwave radios, space communications and other high performing systems. Our goals are simple. We set out each day to ensure developers and providers of today's wireless communication have access to the best performing and most efficient antenna solutions.

Technical specifications

| | |
|---|-------------------|
| Size | Ø19.0 × 2.4 mm |
| Frequency range | 75 – 110 GHz |
| Waveguide size | WR10 |
| Return loss when tightly connected | <-25 dB |
| Typical return loss with up to 100µm airgap | <-20 dB |
| Maximum transmission loss | <-0.2 dB |
| Fully compatible with the standard | UG-387/U Modified |