

W-BAN

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 originates from research conducted at Chalmers University of Technology and was founded in 2011. Gapwaves vision is to be the most innovative provider of mmWave antenna systems and the preferred partner to those pioneering next generation wireless technology. By leveraging the disruptive Gapwaves technology we help pioneers in telecom and automotive to create highly efficient mmWave antenna systems that contributes to re-defining everyday life. Gapwaves markets are e.g. mmWave in 5G telecom and automotive.

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