

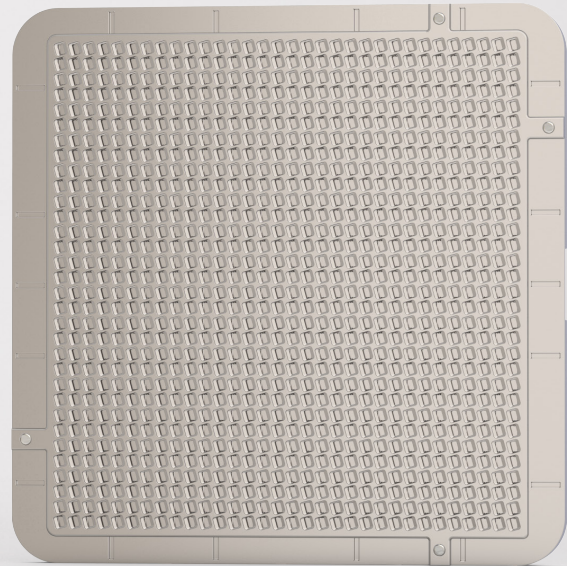
E-BAND 38 dBi

Gapwaves antennas

Gapwaves offers millimeter wave antennas for use in the E-band based on Gapwaves patented waveguide technology platform. Due to the intrinsically low losses of Gapwaves waveguides the antennas offer high performance at minimum size.

Gapwaves antennas in summary

- Low profile and small size
- Low losses
- Broadband
- Tight integration with radio electronics for minimal radio unit size



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	~118 × 118 × 8.2mm
Frequency range	71 - 86 GHz
Gain (mid band)	38 dBi
Connecting flange type	WR12
Antenna pattern	ETSI Class 3