

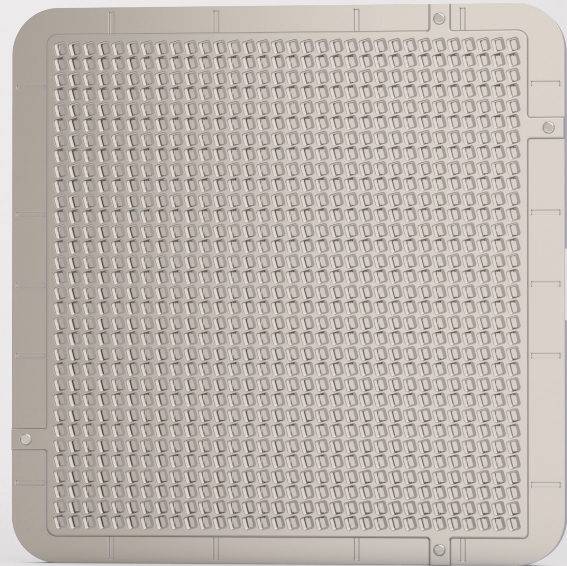
E-BAND 38 dBi

Gap antennas

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

The GAP antennas in summary

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



GAP Technology

GAP waveguides is a novel packaging technology for millimeter wave, terahertz circuits and components. The technology is based on an Artificial Magnetic Conductor (AMC) that enables contactless propagation of electromagnetic waves at GHz and THz frequencies, significantly reducing transmission losses due to non-perfect electrical contact. The versatile GAP waveguide technology provides unique possibilities of deep integration between antennas, diplexers and radio electronics. GAP antennas with multiple ports are suitable for beam steering applications.

About Gapwaves

Gapwaves AB was founded with the intention of commercializing innovative antenna products. Our mission is to provide leading solutions for millimeter wave and terahertz applications in radio communication, radars and wireless sensing. Based in Gothenburg, Sweden, Gapwaves AB holds all the leading patent rights to the GAP waveguide technology. Gapwaves also holds patents for several antenna products including the Eleven Feed antenna and self-grounded Bowtie UWB/MIMO antennas for scientific, military, and telecom use.

Technical specifications

Size	~118 × 118 × 8.2mm
Frequency range	71 - 86 GHz
Gain (mid band)	38.5 dBi
Connecting flange type	WR12
Antenna pattern	ETSI Class 3