



Translating the revolutionary HUBER+SUHNER automotive ADAS* antenna into Aerospace

Technology

- Stacked, metal-coated injection molded slabs forming 3D-waveguide structures
- · Direct coupling to MMICs
- · Highly automated manufacturing process
- · Materials space compatible

Performance

- · Low loss waveguides (<10 dB/m)
- · Broadband (60 GHz-140 GHz)
- · High gain (>15 dBi)
- · Low mass (1.7 g/cm³)
- · Stable radiation patterns
- · Wide spacing of apertures (>5 cm) for max. resolution

Applications

- · Proximity sensing e.g. for rendez-vous maneuvers
- · Situational awareness / object detection / imaging
- · Steerable V & E band communication and data links

Offering

- · Passive antenna
- Antenna integrated with MMIC (test board)
- · Custom antenna designs
- Volumes: small series (10s of units) to mass manufacturing (10,000+)
- · Full in-house characterization and testing facilities
- · Demonstrator for technology testing

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HUBER+SUHNER is certified according to EN(AS) 9100, ISO 9001, ISO 14001, ISO/TS 16949 and IRIS.

Waiver: The facts and figures provided herein are for information only and do not represent any warranty of any kind.

Environmental testing per ECSS-E-ST-10-03

- · Vibration, mechanical shock up to 30 g
- · Humidity 85% at 85 °C for 1500 h
- · -55 °C + 125 °C including vacuum 225 cycles
- → No performance degradation

Radiation testing

- Electron irradiation to reproduce 4 years in LEO orbit
- 60Co, 280 kGy = 28 MRad
- → No performance degradation

Outgas testing per ECSS-Q-ST-70-02C

- · TML << 1%, RML << 1%, CVCM << 0.1%
- → Pass



* ADAS: Advanced Driver Assistance System

