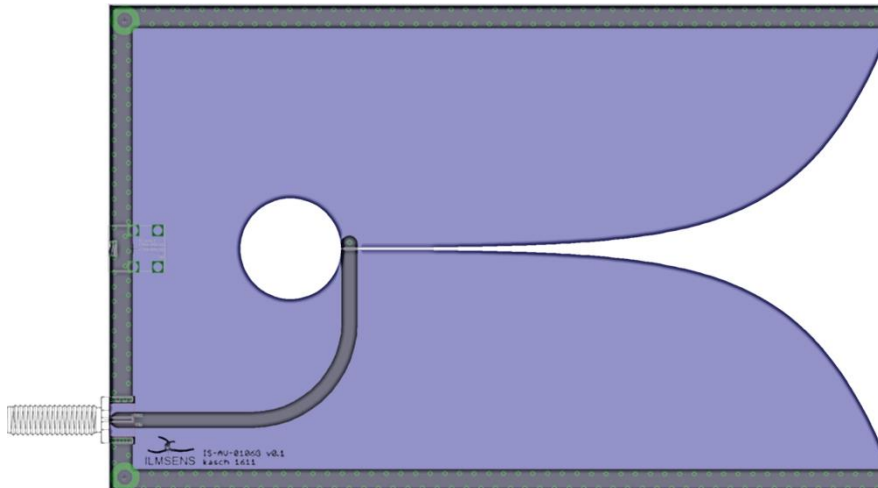


IS-AV-0106G

Ultra-Wideband Vivaldi Antenna



The IS-AV-0106G UWB Vivaldi antenna is optimized for high gain, low VSWR, and a clean time domain response. It is ideally suited for our next generation ultra-wideband (UWB) sensor m:explore.

Suitable for applications such as

- High resolution short range radar
- Precision target ranging and localisation
- Ground penetrating radar (GPR)
- Through-wall radar (TWR)
- Wideband radio communication, e.g. Software-Defines Radio (SDR)
- General purpose wideband antenna

The antenna is a light weight, small, and very cost effective solution for your wideband sensing and communication applications.

RF specifications:

- UWB operation:
 - -3 dB: 550 MHz .. 4 GHz typ.
 - -10 dB: 500 MHz .. 5 GHz typ.
 - -20 dB: 450 MHz .. 6 GHz typ.
- VSWR: @ 50 Ω
 - Main band: < 2.0:1 typ. @ 1.0 .. 6 GHz
 - Ext. band: < 3.0:1 typ. @ 0.6 .. 10 GHz
- Effective aperture width: 90 mm
- Gain: 8 dBi typ. midband

- Power handling (cw): 20 W
- Connector: 50 Ω SMA female

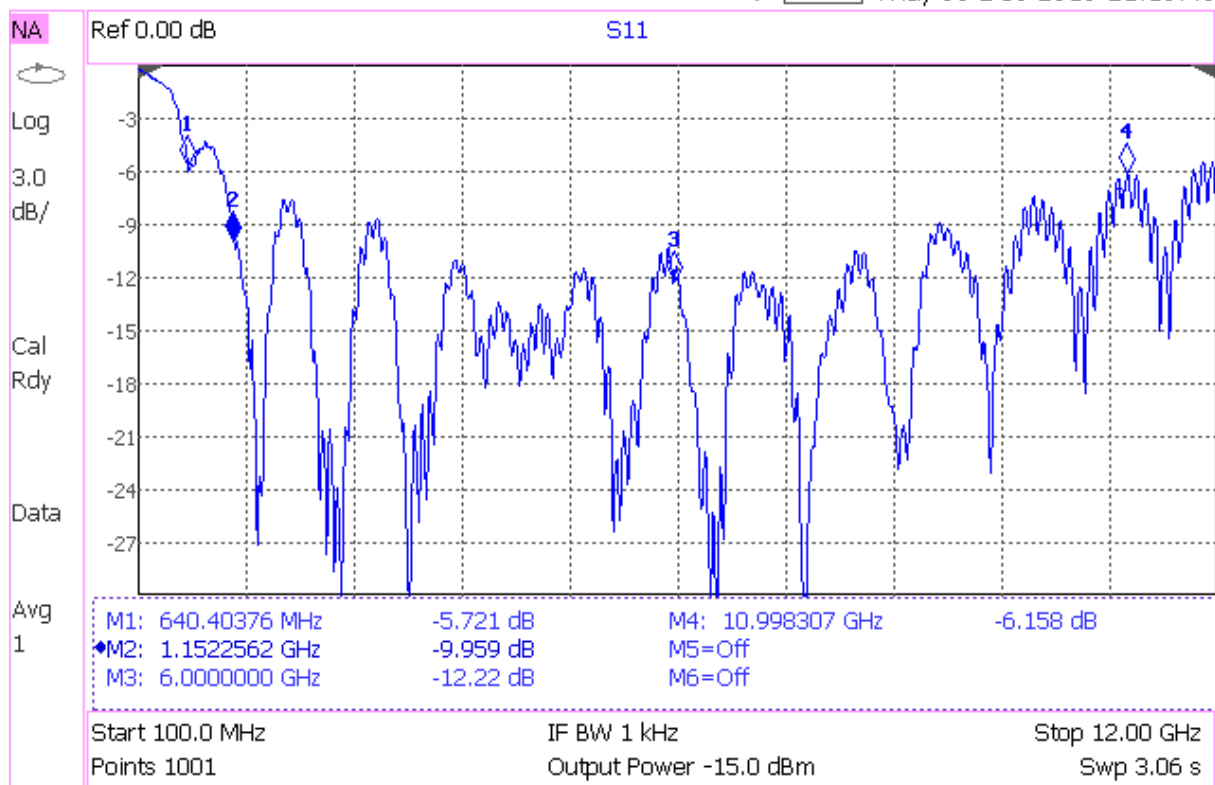
Dimensions and mounting

- Dimensions (WxDxH): 100 mm x 160 mm x 2 mm
- Weight: 100 g
- Easy mounting
 - Centred mounting hole with M3 thread
 - Std. Euro-Card format for rack mounting
- Operating temp. range: -10..+60°C
- Storage temp. range : -20..+85°C

Graphs:

Keysight Technologies: N9918A, SN: MY53102899

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