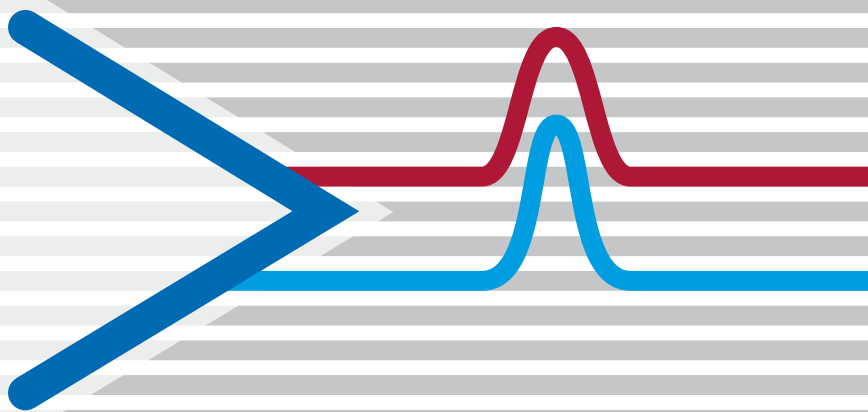


Antennas

POD 16

POD 618



PRECISION OMNIDIRECTIONAL DIPOLES POD

- ✓ Site VSWR measurements above 1 GHz
- ✓ Fully compliant to CISPR 16-1-4
- ✓ Field strength monitoring up to 18 GHz



POD 16 and **POD 618** are precision broadband dipole antennas with conically shaped radiation elements covered by an RF-transparent radome (patented) with excellent, dipole-like radiation pattern up to 18 GHz.

Site VSWR Measurement:

CISPR 16-1-4 defines a new technique to validate fully anechoic rooms in the frequency range 1 – 18 GHz. This method is called Site VSWR measurement. The **POD Antenna** and the **POD Antenna Stand** are designed to exceed the requirements given in this standard.

Advantages of the POD Antenna Set:

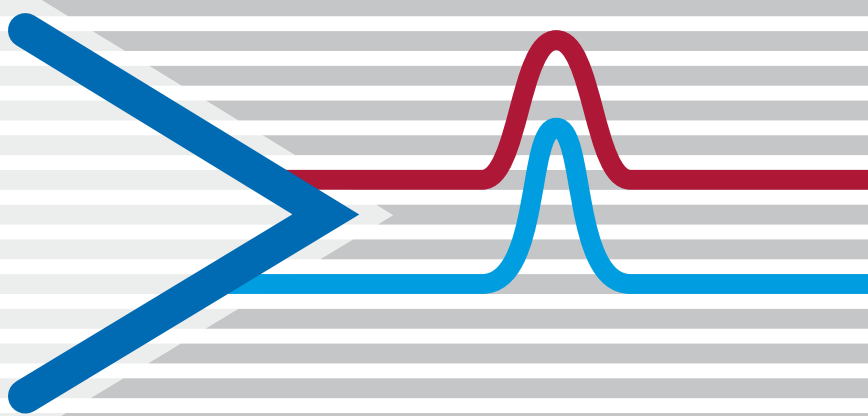
- ✓ Superior radiation pattern for total chamber characterization (no blind spot)
- ✓ Rugged construction
- ✓ Accredited ÖKD calibration of the antenna
- ✓ Antenna Stand minimizes the influence of reflections and defines the cable routing for repeatable results
- ✓ Easy polarization change
- ✓ Easy & time efficient positioning
- ✓ Measurement plug-in for **CalStan 10.0** available

POD antennas for the frequency range 1 - 18 GHz

Antennas

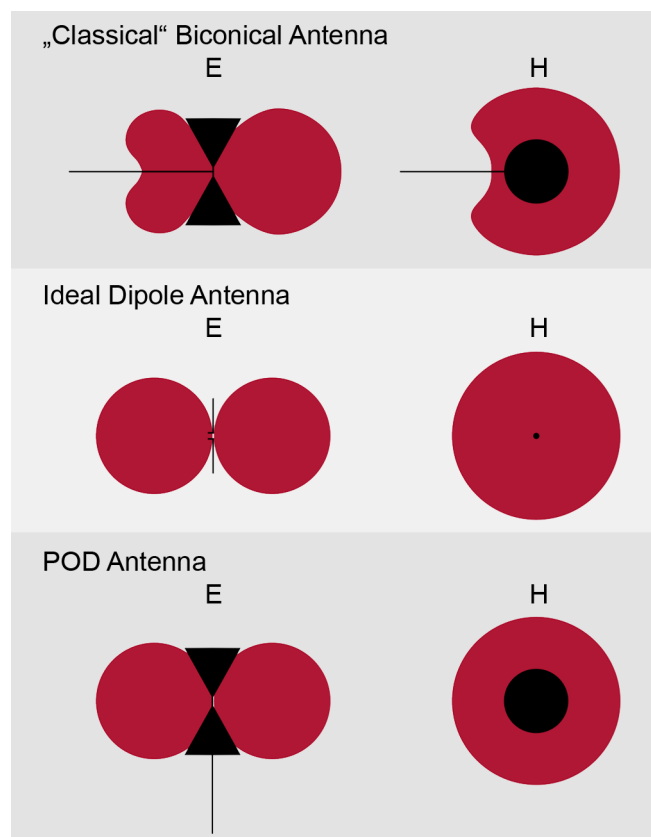
POD 16

POD 618



Why is the POD Radiation Pattern Superior?

In the “classical” biconical design the pattern is distorted (compared to the ideal dipole) in the region around the antenna feed cable. The **patented POD Antenna design** avoids coupling with the feed cable and its pattern is close to the ideal dipole (see Figures below).



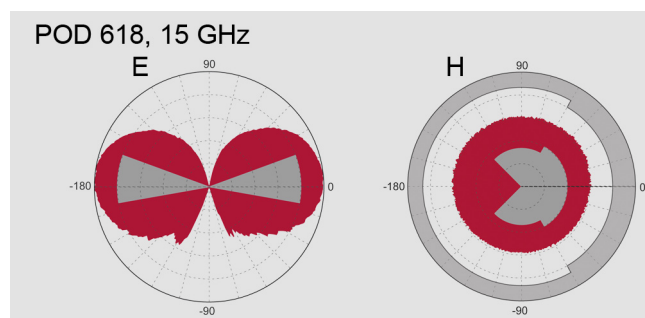
Available Options:

- POD Antenna Stand** designed for site validation measurements according to CISPR 16-1-4 requirements
- Accredited **ÖKD calibration** of radiation pattern and antenna factor (1° resolution, 1 GHz steps)
- Site VSWR measurement plug-in for CalStan 10.0 measurement software

Technical Data:

	POD 16	POD 618
Frequency Range	1 GHz - 6 GHz	6 GHz - 18 GHz
H-Plane anisotropy	± 0.5 dB	± 0.8 dB
Max. input power	30 dBm	
Connector type	SMA	

The diagram of the measured radiation pattern (for example POD 618 at 15 GHz) additionally shows the “forbidden area” in grey color as given in the standard.



Presented by:

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