SEIBERSDORF LABORATORIES

ANTENNAS POD 16 | POD 618

PRECISION OMNIDIRECTIONAL DIPOLES - POD

PRODUCT HIGHLIGHTS

- SITE VSWR MEASUREMENTS ABOVE 1GHz
- FULLY COMPLIANT TO CISPR 16-1-4
- TABLE INFLUENCE MEASUREMENTS
- FIELD STRENGTH MONITORING UP TO 18 GHz

The **POD Antennas** 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. Model **POD 16** covers the frequency range 1 - 6 GHz and **POD 618** is designed for 6 - 18 GHz operation.

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 Antennas** and the **Site VSWR Positioners** 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)
- Individual accredited **calibration** (ÖKD) of radiation pattern and antenna factor (1° resolution, 1 GHz steps)
- Rugged construction
- Site VSWR Positioner (Antenna Stand) minimizes the influence of reflections and defines the cable routing for repeatable results - automatic and manual version available
- Easy polarization change
- Easy & time efficient positioning, especially with the automatic Site VSWR Positioner SPA1

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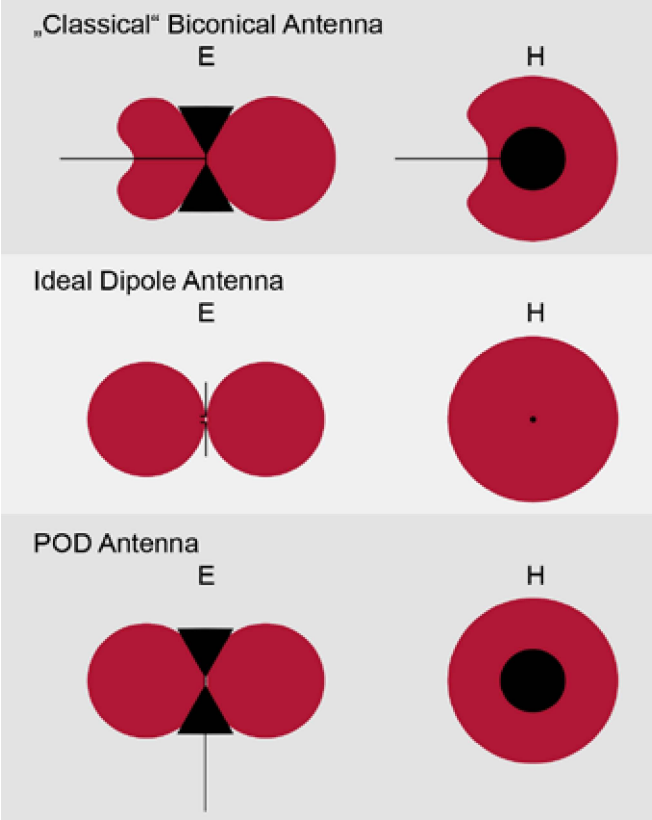
WHY IS THE POD RADIATION PATTERN SUPERIOR?

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

- **Site VSWR Positioner** designed for site validation measurements according to CISPR 16-1-4 requirement: SPM1 - manual version, SPA1 - automatic positioning
- 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.