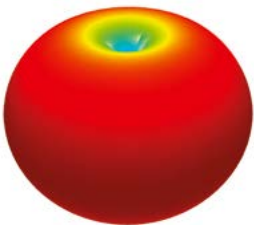


Wideband Dipoles

Typical 3D radiation pattern



SOLUTION FOR

- Wideband gain/efficiency reference
- Chamber reflectivity evaluation
- Measurement accuracy evaluation
- CTIA ripple test

Main features

Technical performance

- Wide bandwidth
- Low loss and high efficiency
- Azimuth pattern symmetry due to entirely symmetrical design

Design

- Lightweight for easy handling

Surface treatment

- Surtec 650 according to MIL-C 5541E class 3
- Polyurethane paint

Repeatability

- Stiff and robust mechanical design
- Precision machined
- High reliability connector

Delivered documents

- Typical performance data (TYMEDA™)
- Measured return loss data

Product configuration

Equipment

- Low reflectivity mounting fixture

Related services

- Calibration and maintenance
- Customization

■ Included □ Optional

Electrical characteristics

Part number

Type of antenna	Wideband Dipole
Average gain	1 dBi approx.
Gain variations over azimuth	± 0.1 dB
Average Efficiency	90% approx.
VSWR	< 1.9
Return loss	< -10 dB
Impedance	50 Ohms

Mechanical characteristics

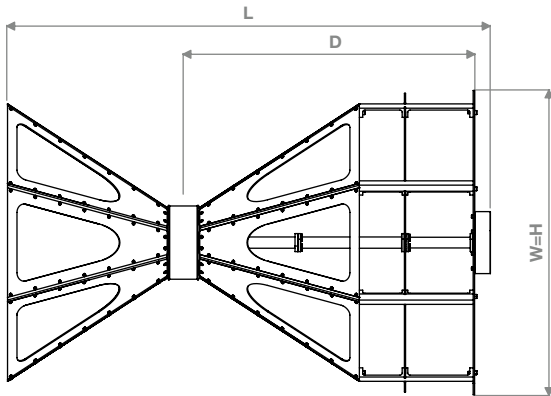
Part number	Frequency Range [MHz]	Dimensions [mm]			Weight (approx.) [kg]	Interface	RF Connector
		H = W	L	D			
WD130	130-400	540	857	517	7.13	Circular \varnothing 110 mm	N-type Female ⁽¹⁾
WD400	400-800	260	472	313	3.23	Circular \varnothing 110 mm	N-type Female ⁽²⁾
WD700	650-1500	160	320	214	1.14	Circular \varnothing 60 mm	3.5 mm Female ⁽³⁾
WD1500	1500-3000	70	188	138	0.18	N/A	3.5 mm Female ⁽³⁾
WD3000	3000-6000	41	111	83	0.04	N/A	3.5 mm Female ⁽³⁾
WD6000	6000-10000	27	124	71	0.03	N/A	3.5 mm Female ⁽³⁾

(1) Southwest 312-04SF

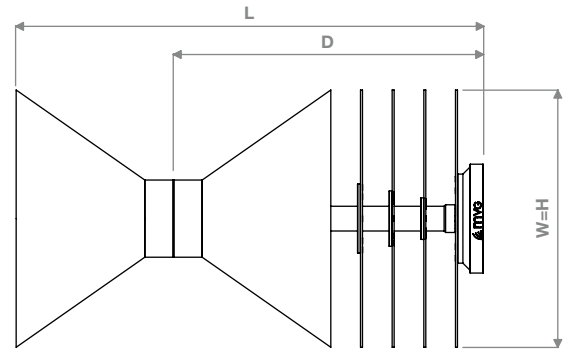
(2) Southwest 312-14SF

(3) Huber+Suhner type 23 PC35-50-0-51/199UE

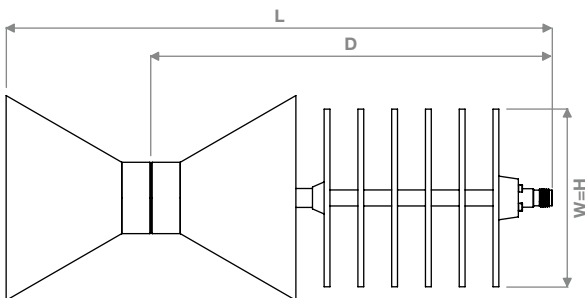
W130 Dimensional drawing



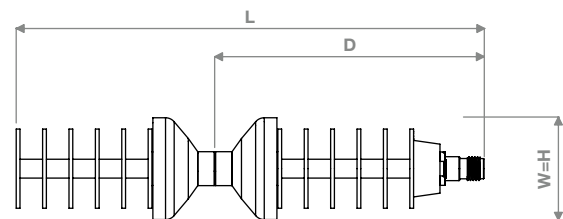
WD400, WD700 Dimensional drawing



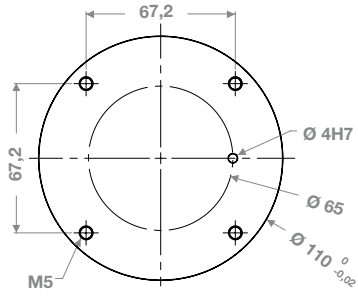
WD1500, WD3000 Dimensional drawing



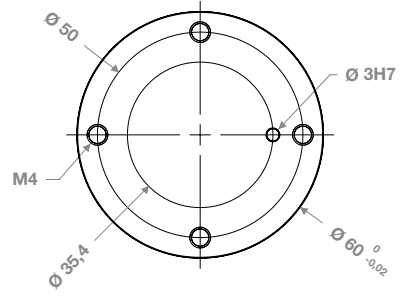
WD6000 Dimensional drawing



WD130, WD400 interface



WD700 interface



Contact your local sales representative for more information
www.mvg-world.com/antennas
salesteam@mvg-world.com

