

# RFECHO High Gain Log-Periodic Antenna

## OVLA-0083

The RFECHO High Gain Log-Periodic Antenna frequency range is 80MHz to 3GHz , TheRFECHO High Gain Log-Periodic Antenna offers excellent broadband characteristics, aradiation pattern that is approximately rotation-symmetrical as well as high gain, making itparticularly suitable for EMS immunity measurements.

In comparison with existing systems, the required field strengths can be achieved with a lower amplifier power. This is due to the high antenna gain.

Its small size, wide frequency range and folding mechanism make the antenna ideal for use in test chambers.



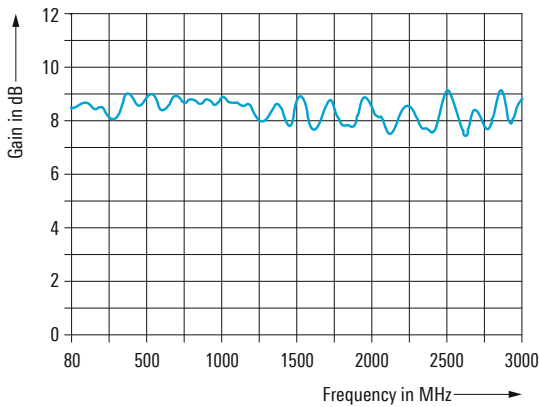
### Features

High antenna gain, i.e. low amplifier power is required
No change of antennas needed over wide frequency range
Uniform object irradiation due to optimized radiation patterns
Small size
Influence of chamber reduced
Antenna gain approximately constant over the whole frequency range

### Electrical Specifications

Frequency range	80 MHz to 3 GHz
Polarization	linear
Input impedance	50 Ω
VSWR	
<2500 MHz	<2
≥2500 MHz	<2.5
Practical gain	typ. >8 dBi
Max. input power	
80 MHz	1400 W + 100 % AM
500 MHz	600 W + 100 % AM
1000 MHz	400 W + 100 % AM
2000 MHz	300 W + 100 % AM
3000 MHz	250 W + 100 % AM
Connector	N female
Operating temperature range	+5 °C to +40 °C in line with MIL-STD-810E
Class of application	laboratory
Dimensions (W × H × L)	
Without tripod	
Folded	approx. 0.85 m × 1.50 m × 1.81 m
Open	approx. 1.50 m × 1.50 m × 1.81 m
With tripod	
Folded	approx. 0.86 m × 1.90 m × 1.89 m
Open	approx. 1.50 m × 1.90 m (variable up to 2.60 m) × 1.89 m
Weight	
Without tripod	approx. 17 kg
Tripod	approx. 12.5 kg

Typical practical gain (including VSWR losses)



Typical antenna patterns at 500 MHz

