

RFECHO High Gain Log-Periodic Antenna OVLA-0083

The RFECHO High Gain Log-Periodic Antenna frequency range is 80MHz to 3GHz, The RFECHO 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.



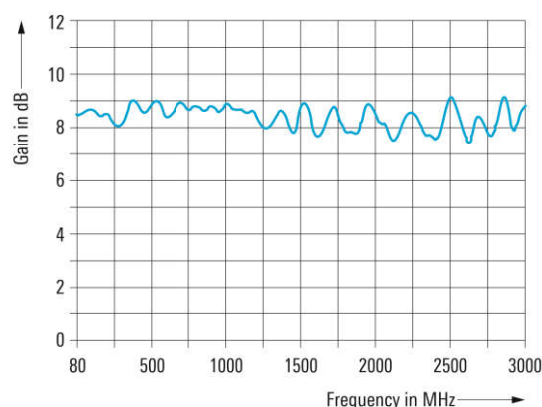
Features

- 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

