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## Test \&

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## Complimentary Reference Material

This PDF has been made available as a complimentary service for you to assist in evaluating this model for your testing requirements.

TMG offers a wide range of test equipment solutions, from renting short to long term, buying refurbished and purchasing new. Financing options, such as Financial Rental, and Leasing are also available on application.

TMG will assist if you are unsure whether this model will suit your requirements.
Call TMG if you need to organise repair and/or calibrate your unit.
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## VHF/UHF Antennas

EMS Antenna R\&S ${ }^{\oplus}$ HL 046


## 80 MHz to 1300 MHz

Log-periodic antenna for
EMS measurements

## Features

- High antenna gain, i.e. Iow amplifier power required
- Only one antenna required to cover a wide frequency range
- Uniform object irradiation due to optimized radiation patterns
- Reduced influence of test chamber
- Wall mounting possible
-Small size



## Brief description

The R\&S ${ }^{\circledR}$ HLO46 for EMS measurements consists of two log-periodic antennas arranged in a V-shape and connected in parallel. Due to this construction, high selectivity is obtained in the H plane and the radiation patterns are almost rotation-symmetrical.

The small size and the wide frequency range make the antenna suitable for use in test chambers.

Antenna model .02 is mounted on a trolley whose height can be continuously adjusted between approx. 1 m and 1.75 m above ground (model . 03 is without trolley). Polarization is manually set. Pneumatic actuators can optionally be provided.

## Specifications

| Frequency range | 80 MHz to 1.3 GHz |
| :--- | :--- |
| Polarization | linear |
| Input impedance | $50 \Omega$ |
| VSWR | $<2$ |
| Max. input power $\left(T_{A}=+40^{\circ} \mathrm{C}\right)$ |  |
| 80 MHz | $1000 \mathrm{~W}+100 \% \mathrm{AM}$ |
| 500 MHz | $500 \mathrm{~W}+100 \% \mathrm{AM}$ |
| 1 GHz | $300 \mathrm{~W}+100 \% \mathrm{AM}$ |
| 1.3 GHz | $250 \mathrm{~W}+100 \% \mathrm{AM}$ |
| Gain | typ. $>7 \mathrm{dBi}$ |
| Front-to-back ratio | typ. $>20 \mathrm{~dB}$ |
| Polarization decoupling | typ. 20 dB |


| Connector | N female |
| :--- | :--- |
| Class of application | laboratory |
| MTBF | $>100000 \mathrm{~h}$ |
| Operating |  |
| temperature range | $-10^{\circ} \mathrm{C}$ to $+50^{\circ} \mathrm{C}$ |
| Dimensions $(\mathrm{W} \times \mathrm{H} \times \mathrm{L}$ ) |  |
| Without trolley | approx. $0.85 \mathrm{~m} \times 1.57 \mathrm{~m} \times 1.75 \mathrm{~m}$ |
| With trolley | approx. $0.86 \mathrm{~m} \times 1.90 \mathrm{~m}$ (variable up to |
| Weight | $2.60 \mathrm{~m}) \times 1.85 \mathrm{~m}$ |
| Without trolley | approx. 12.5 kg |
| With trolley | approx. 22.5 kg |

Ordering information


