

R&S® ADD507 COMPACT VHF/UHF DF ANTENNA



Product Brochure
Version 02.00

ROHDE & SCHWARZ

Make ideas real



AT A GLANCE

R&S®ADDx compact single-channel DF antennas are vital to Rohde & Schwarz direction finder performance. The technology is based on over 50 years of experience in developing DF antennas with superior sensitivity and accuracy, despite their compact size.

R&S®ADD507 compact wideband DF antennas are ideal for radiolocation from moving vehicles during interference hunting missions and small scale electronic warfare (EW) operations, such as emitter hunting and long-term monitoring close to targets. The optional R&S®ADD-VA2 vehicle adapter and R&S®ADD507 magnet mount can turn commercial vehicles into accurate mobile direction finders in minutes. The large magnetic surface adapts to the slight angle of vehicle roofs.

Sporadic radio interference sources and short emissions from private mobile radios (PMR) can be located when two or more transportable spectrum monitoring stations (TMS) are mounted at higher elevations, such as roof tops. TMS is temporarily deployed on site for spectrum monitoring before and during major events. Transportable electronic support measure (ESM) systems can quickly monitor static areas, such as command outposts and help protect convoys during tactical movements. The R&S®ADD507 is part of the Rohde & Schwarz TMS compact DF and TMS lightweight DF systems and can be installed on R&S®ADD17XZ6 wooden tripods or on R&S®DDF1555X01 lightweight tripods with adapter or the R&S®ARDN-STAND telescopic wind-up stand with R&S®CS-MPA antenna adapter for temporary deployments. The R&S®ADD507 can be installed on erectable masts with R&S®ADD17XZ2 mast adapters. R&S®DDF1555X04 mast adapters are recommended for lightweight transportable masts.

The R&S®ADD507 can be used with Rohde & Schwarz monitoring receivers that have the DF option.

R&S®ADD507 contains only passive antenna elements and active antenna elements with active/passive switches as recommended by the ITU Handbook on Spectrum Monitoring. Switching the R&S®ADD507 to passive mode bypasses all active components and increases immunity to strong unwanted signals.

KEY FACTS

- ▶ Frequency range from 9 MHz to 8 GHz
- ▶ Innovative antenna design with superior VHF sensitivity
- ▶ Active antenna elements with active/passive switches and passive elements
- ▶ In passive mode all active components are bypassed
- ▶ Vehicle adapter with magnet mount (option)

SPECIFICATIONS IN BRIEF

Specifications in brief

Frequency range	reduced performance below 20 MHz	9 MHz to 8 GHz
Polarization		vertical
System DF accuracy ¹⁾	mode: active	2° RMS (typ.)
Antenna element type		crossed loops, dipoles with variable electrical length in front of reflector, monopoles in front of reflector
Antenna mode		active, passive
Dimensions	Ø × H	approx. 0.33 m × 0.27 m (13 in × 10.63 in)
Weight	antenna without adapter	approx. 4.5 kg (9.9 lb)

¹⁾ Measurement in reflection-free environment. The RMS error is calculated from the bearings of evenly distributed samples versus azimuth and frequency, in line with Recommendation ITU-R SM.2060.

ORDERING INFORMATION

Description	Type	Order No.
Antenna		
Compact VHF/UHF DF antenna, color: light ivory	R&S®ADD507	4121.2009.02
Compact VHF/UHF DF antenna, color: yellow olive	R&S®ADD507	4121.2009.03
Compact VHF/UHF DF antenna, color: squirrel grey	R&S®ADD507	4121.2009.04
Compact VHF/UHF DF antenna, color: bronze green	R&S®ADD507	4121.2009.05
Compact VHF/UHF DF antenna, color: pure white	R&S®ADD507	4121.2009.06
Compact VHF/UHF DF antenna, color: jet black	R&S®ADD507	4121.2009.07
Compact VHF/UHF DF antenna, color: bronze green, dull matt	R&S®ADD507	4121.2009.35
Accessories		
Adapter for masts		
Mast adapter, compatible with R&S®ARDN-STAND and R&S®ARDN-MAST	R&S®CS-MPA	4125.2026.02
Mast adapter	R&S®ADD17XZ2	4079.5000.02
Mast adapter, for transportable masts	R&S®DDF1555X04	4500.4541.02
Adapter for vehicles		
Vehicle adapter with magnet mount	R&S®ADD-VA2	4121.3905.02
Tripods		
Wooden tripod with adapter	R&S®ADD17XZ6	4090.8860.02
Lightweight tripod with adapter	R&S®DDF1555X01	4500.4506.02

Service options

Extended warranty, one year	R&S®WE1	
Extended warranty, two years	R&S®WE2	Contact your local Rohde & Schwarz sales office for more information.
Extended warranty, three years	R&S®WE3	
Extended warranty, four years	R&S®WE4	
Performance check	R&S®CHK-PERF	5930.0144.00

Service at Rohde & Schwarz You're in great hands

- ▶ Worldwide
- ▶ Local and personalized
- ▶ Customized and flexible
- ▶ Uncompromising quality
- ▶ Long-term dependability

Rohde & Schwarz

The Rohde&Schwarz technology group is among the trail-blazers when it comes to paving the way for a safer and connected world with its leading solutions in test & measurement, technology systems and networks&cybersecurity. Founded more than 85 years ago, the group is a reliable partner for industry and government customers around the globe. The independent company is headquartered in Munich, Germany and has an extensive sales and service network with locations in more than 70 countries.

www.rohde-schwarz.com

Sustainable product design

- ▶ Environmental compatibility and eco-footprint
- ▶ Energy efficiency and low emissions
- ▶ Longevity and optimized total cost of ownership

Certified Quality Management

ISO 9001

Certified Environmental Management

ISO 14001

Rohde & Schwarz training

www.training.rohde-schwarz.com

Rohde & Schwarz customer support

www.rohde-schwarz.com/support

