

# R&S®AD016MC COMPACT BROADBAND TX ANTENNA

800 MHz to 8 GHz

For transmission and reception



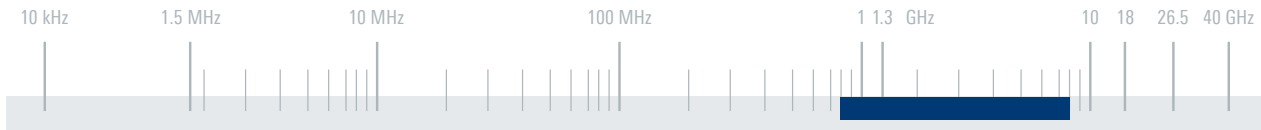
The linearly polarized R&S®AD016MC compact broadband TX antenna covers the wide frequency range from 800 MHz to 8 GHz for transmit and receive purposes.

Due to its mechanical design as well as its weather protection, the antenna is suited for use in exposed positions and under tough environmental conditions, e.g. on board ships.

## Key facts

- ▶ For naval applications
- ▶ Ideally suited for aeronautical radiocommunications (e.g. LINK 16: 960 MHz to 1215 MHz)
- ▶ Very low cross-polarization
- ▶ Small size, compact design
- ▶ High efficiency





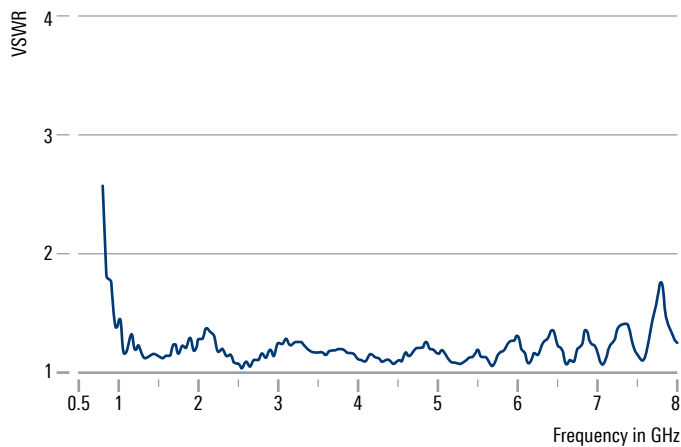
### Specifications

Frequency range		800 MHz to 8 GHz
Polarization		linear, vertical
Nominal impedance		50 Ω
VSWR	0.8 GHz to 0.95 GHz	< 3.0
	> 0.95 GHz	< 2.0
Gain		2.5 dBi (typ.)
Polarization decoupling		> 20 dB
Radiation patterns		horizontal: omnidirectional
Maximum input power	800 MHz to 1 GHz	300 W (CW)
	8 GHz	100 W (CW)
RF connector		N female
MTBF		> 100 000 h
Operating temperature range		-30°C to +70°C
Protection class		IPx5, in line with EN 60529
Maximum wind speed	without ice deposit	275 km/h
Dimensions	Ø × H	approx. 0.21 m × 0.275 m (8 in × 11 in)
Weight		approx. 2.5 kg (6 lb)

### Ordering information

Ordering information	Type	Order No.
Compact broadband TX antenna	R&S®AD016MC	4091.6002.02

### Typical VSWR



### Typical vertical radiation pattern at 1.1 GHz

