R&S®AD066ST OMNIDIRECTIONAL UHF ANTENNA

225 MHz to 400 MHz

For naval UHF communications

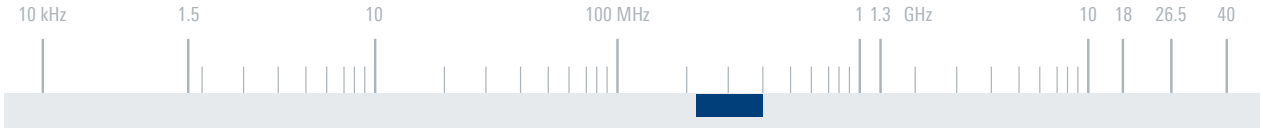
The vertically polarized R&S®AD066ST omnidirectional UHF antenna covers the frequency range from 225 MHz to 400 MHz. Four dedicated receive/transmit systems with up to 200 W transmitter power each can be used with the antenna. Due to the antenna's decoupling characteristics, particularly between its upper and lower part, it can be operated in receive and transmit mode even with close frequencies.

The R&S®AD066ST is characterized by very good omnidirectional characteristics and a high gain.

The antenna's mechanical design is optimized for employment under tough environmental conditions, e.g. on board ships.

Key facts

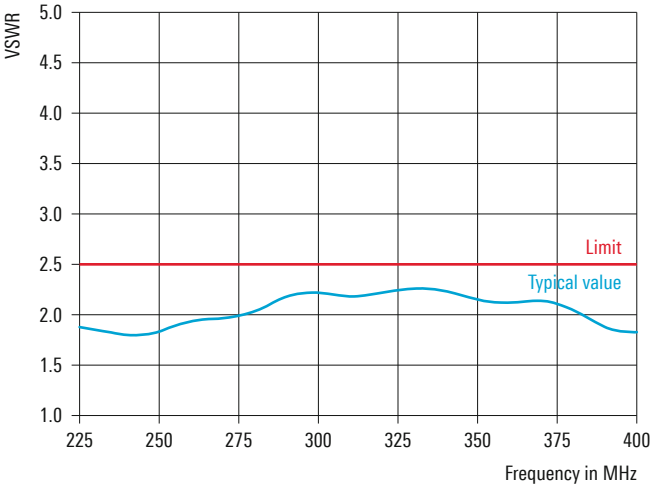
- Four individually accessible dipoles
- High decoupling between individual dipoles
- For naval applications
- Ruggedized design for harsh environmental conditions



Specifications		
Frequency range		225 MHz to 400 MHz
Polarization		linear, vertical
Nominal impedance		50 Ω
VSWR		< 2.5
Gain		typ. 1.5 dBi
Polarization decoupling		> 20 dB
Decoupling	between lower two dipoles	> 27 dB
	between upper two dipoles	> 27 dB
	between lower and upper dipoles	> 40 dB
Radiation pattern		horizontal: omnidirectional
Maximum input power		4 times 200 W CW
RF connector		4 N sockets
MTBF		> 100 000 h
Operating temperature range		–30 °C to +70 °C
Protection class		IP65
Max. wind speed	without ice deposit	275 km/h
Dimensions	∅ × H	approx. 0.13 m (radome) × 5.4 m (0.4 ft × 18 ft)
Weight		approx. 85 kg (187 lb)

Ordering information	Type	Order No.
Omnidirectional UHF antenna	R&S®AD066ST	4095.7003.02

Typical VSWR



Typical decoupling between a lower (X1 or X2) and an upper dipole (X3 or X4)