

Широкополосная антенна AD066FW



Диапазон 118 - 453 МГц

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Астана (7172)727-132
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89
Иваново (4932)77-34-06

Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Липецк (4742)52-20-81

Киргизия (996)312-96-26-47

Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16

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Самара (846)206-03-16
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Саратов (845)249-38-78
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Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13

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Томск (3822)98-41-53
Тула (4872)74-02-29
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Ярославль (4852)69-52-93

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R&S® AD066FW BROADBAND VHF/UHF COMMUNICATIONS ANTENNA SYSTEM

118 MHz to 453 MHz

Compact VHF/UHF transmitting/receiving antenna system for naval applications



The R&S®AD066FW is an omnidirectional VHF/UHF antenna system for naval applications. The system can be used for transmitting or for receiving only.

The R&S®AD066FW consists of the R&S®AD066F broadband VHF/UHF communications antenna, the R&S®FT066F beamforming network and the applicable R&S®AD066FW-K cable sets.

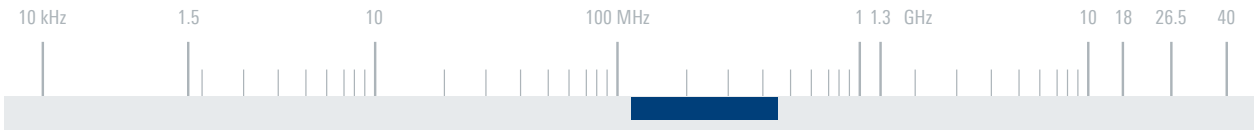
Eight vertically polarized dipoles are circularly arranged around a center support structure and combined by the beamforming network (BFN) to one output, resulting in an excellent omnidirectional behavior. The beamforming network can also be custom-designed to meet special customer requirements.

The R&S®AD066FW can fit around mast diameters of up to 700 mm. The antenna is delivered in eight identical segments for easy mounting and servicing.

Key facts

- ▶ Wide frequency range
- ▶ Excellent omnidirectionality
- ▶ High input power for simultaneous use of multiple radio lines
- ▶ Stackable antenna design
- ▶ Vertical polarization
- ▶ Especially designed for operation under harsh environmental conditions





Specifications

R&S®AD066F

| | |
|----------------------------------|---|
| Frequency range | 118 MHz to 453 MHz |
| Input impedance | 50 Ω, unbalanced |
| VSWR | < 3; typ. 2.0 |
| Gain | ≥ 0 dBi; typ. 2 dBi; in combination with R&S®AD066FW-K and R&S®FT066F |
| Input power | max. 600 W CW (depending on beamforming network) |
| Polarization | linear, vertical |
| Polarization decoupling | > 18 dB |
| Connectors | N female |
| Dimensions (Ø × H) ¹⁾ | approx. 1.4 m × 1.5 m (5 ft × 5 ft) |
| Weight | approx. 150 kg (331 lb) |

R&S®FT066F

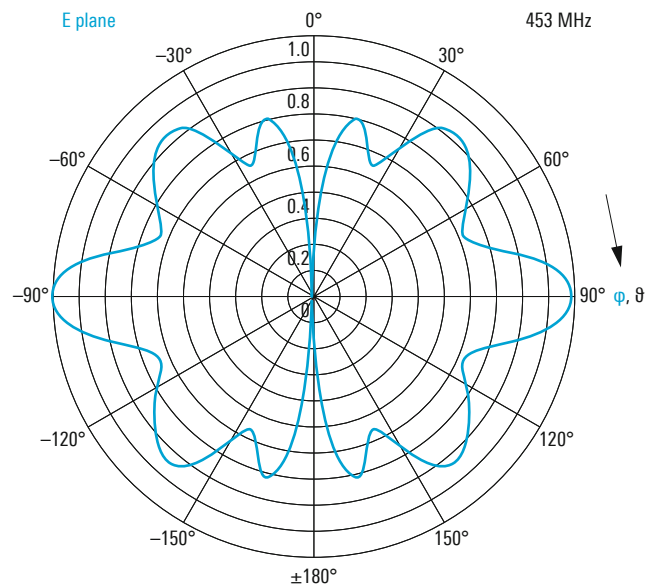
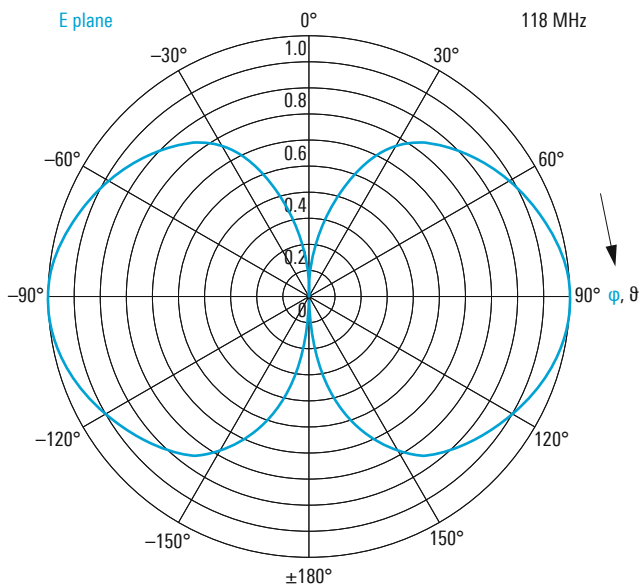
| | |
|------------------------|---|
| Dimensions (W × H × L) | approx. 340 mm × 130 mm × 650 mm (13 in × 5 in × 26 in) |
| Weight | approx. 27 kg (60 lb) |

R&S®AD066FW

| | |
|-----------------------------|--------------------------------|
| Connector | N female |
| MTBF | > 100 000 h |
| Operating temperature range | -30°C to +70°C |
| Storage temperature range | -40°C to +70°C |
| Protection class | IPx6 |
| Max. wind speed | 200 km/h (without ice deposit) |

¹⁾ Incl. connectors and installation lugs.

Typical radiation patterns



| Ordering information | Type | Order No. |
|--|---------------|--------------|
| Broadband VHF/UHF communications antenna system | | |
| Broadband VHF/UHF communications antenna | R&S®AD066F | 4090.0000.02 |
| Beamforming network for R&S®AD066F (indoor use) | R&S®FT066F | 4090.3500.02 |
| Beamforming network for R&S®AD066F (seawater resistant) | R&S®FT066F | 4090.3500.03 |
| Cable sets for R&S®AD066F (model depends on application) | R&S®AD066FW-K | 4090.1707.xx |



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