

BASE STATION ANTENNA

ATC S12 VHF



Wideband dipole antenna type with a circuit for shaping a match factor.

The ATC S12 antenna covers the avionic VHF band 116-136 MHz.

In common-phase systems the ATC S12 enables build the antenna array with a gain to 6dB and omnidirectional radiation pattern in the azimuth plane.

Duraluminium welded construction is covered with a powder varnish providing a high resistance to atmospheric corrosion.

A small active surface ensures resistance to ice and wind in all environments.

A handle on a back side of antenna enables easy mounting direct at the mast as a single antenna or in antenna arrays using toehold.

Considering a high emission power the antenna is recommended to application in broadcasting centers.

The antenna is supplied with a fiberglass mast length of 3 meters, ensuring an omnidirectional radiation pattern. In this case a grounding cable is located along the mounting mast.

The antenna is DC-grounded and with proper grounding does not require an additional lightning rod.

ELECTRICAL

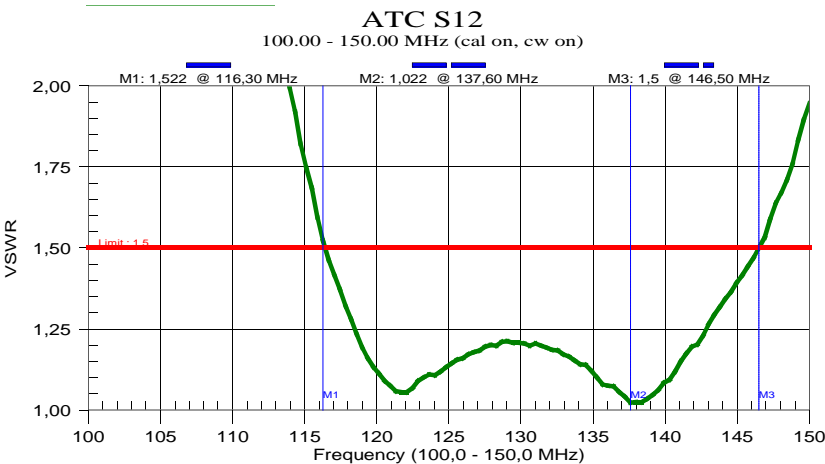
| | |
|---|--|
| Gain (ref. to $\lambda/2$ dipole) | 0,0 dB, 2,15 dBi |
| Radiation pattern | omnidirectional |
| Impedance | 50 Ω |
| Antenna type | $\lambda/2$ dipole |
| Maximum power | 500 W |
| VSWR | $\leq 1,5$ |
| Frequency range | 116-136 MHz |
| Bandwidth | 20 Mhz @ SWR <1,5 |
| Horizontal radiation pattern code (H-plane) | 000ND00 (CEPT Recommendation T/R 25-08) |
| Vertical radiation pattern code (E-plane) | 040DE00 (CEPT Recommendation T/R 25-08) |

MECHANICAL

| | |
|----------------------------------|-----------------------------------|
| Connector | N, 7/16 |
| Material | Aluminium, welded |
| Polarization | Vertical, horizontal |
| Diameter/length of mounting mast | 50 / 3000 mm |
| Weight | 3 ,5 kg without the mounting mast |
| Lightning protection | DC-grounded |
| Packaging | 48 months |
| Warranty period | Carton box, wrap |
| Wind speed | 200 km/h |

CLIMATIC CONDITIONS

| | |
|-------------------|-----------------------|
| Temperature range | -40°C ÷ +70°C |
| Humidity | $\leq 100\%$ at +40°C |

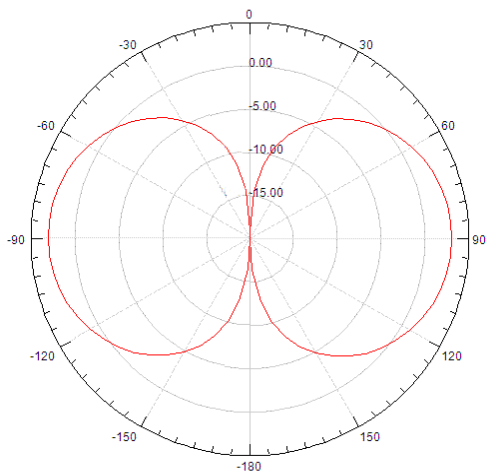


Resolution: 130
Model: MS

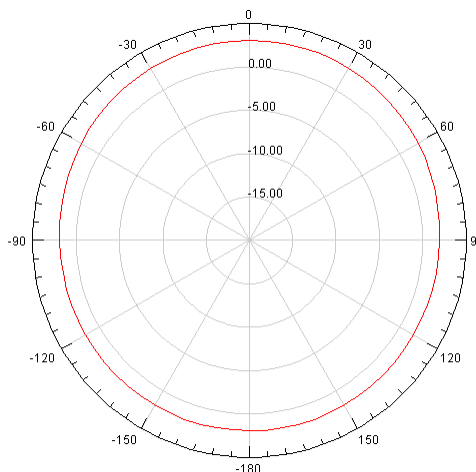
CAL:ON(COAX)
Serial #: 00000000

CW: ON
Smoothing: 0

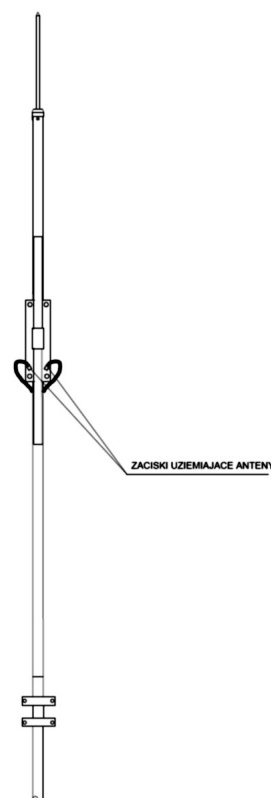
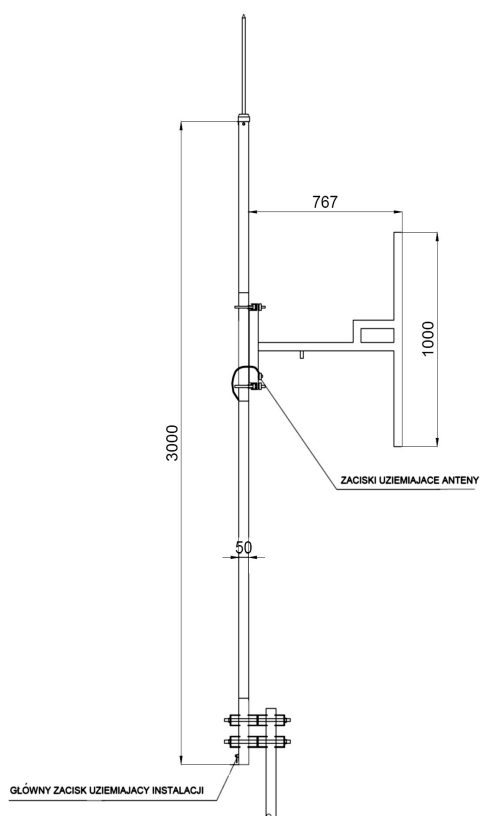
VSWR



Vertical radiation pattern



Horizontal radiation pattern



Total dimensions of the ATC S12



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communication

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