

Antenna system

ATC S08W



The omnidirectional antenna designed for vertical polarization, produced in versions covering the whole VHF and UHF band. The antenna includes two phased dipoles and a wideband transformer which ensures the matching in the whole VHF band. All is closed in a heavy-duty fiberglass radome. The antenna is DC-grounded and a lightning rod placed on the top enables applying the antenna as an element crowning the mast. An application: civil and military terrestrial and air communication systems.

ELECTRICAL

Gain	0 dB = 2,15 dBi @ ver.1 - L=1000,00 mm, 3,0 dB @ ver.2 - L=3100 mm
Radiation pattern	omnidirectional
Impedance	50 Ω
Antenna type	colinear
VSWR	< 1.5
Frequency range	116 - 150 MHz ver.1, 100 - 165 ver.2
Maximum power	250 W or 3.5kW (7/16 connetor)
Horizontal radiation pattern code (H-plane)	000ND00 (CEPT Recommendation T/R 25-08)
Vertical radiation pattern code (E-plane)	039DE10 ver.1 - L = 1000mm 018DE10 ver.2 - L = 3100mm (CEPT Recommendation T/R 25-08)

MECHANICAL

Connector	N
Material	Aluminium, fiberglass
Polarization	horizontal
Weight	37 kg
Lightning protection	DC-grounded
Total dimensions (diameter/height)	200,00mm / ver. 1 - L= 1000,00mm; ver. 2 - L= 3100.0 mm,
Packaging	Carton box, wrap
Warranty period	48 months
Wind speed	180km/h
MTBF	> 250 000 h

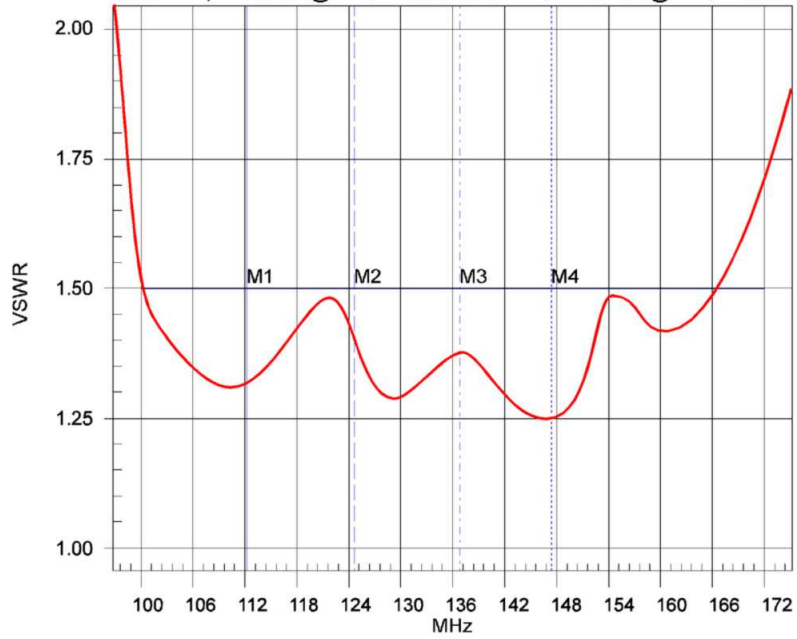
CLIMATIC CONDITIONS

Temperature range	-40°C ÷ +85°C
Humidity	≤ 100% at +40°C

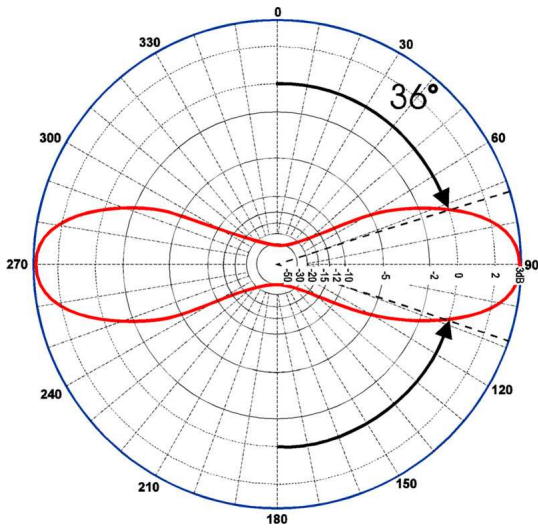
ATC-S08W VSWR

95,00 - 175,00 MHz (cal on, cw on)

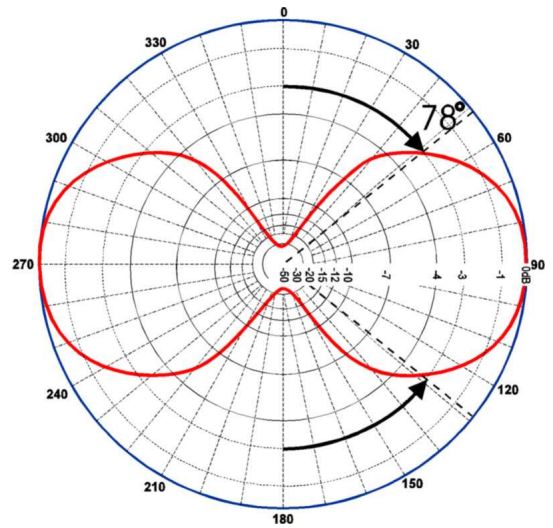
M1: 1,32 VSWR @ 106,00 MHz M2: 1,40 VSWR @ 119,00 MHz
M3: 1,34 VSWR @ 131,00 MHz M4: 1,25 VSWR @ 139,00 MHz



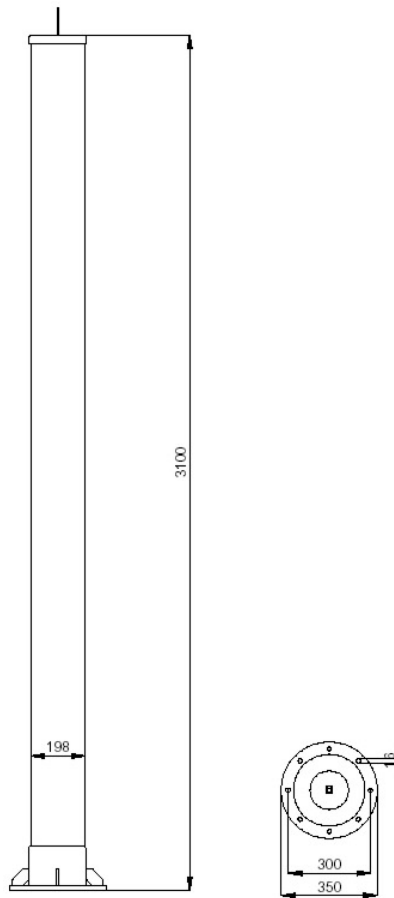
VSWR



Vertical radiation pattern of
version L= 3100mm



Vertical radiation pattern of
version L= 1000mm



Dimensions of the antenna and the mounting base for version 2



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