Antennas system

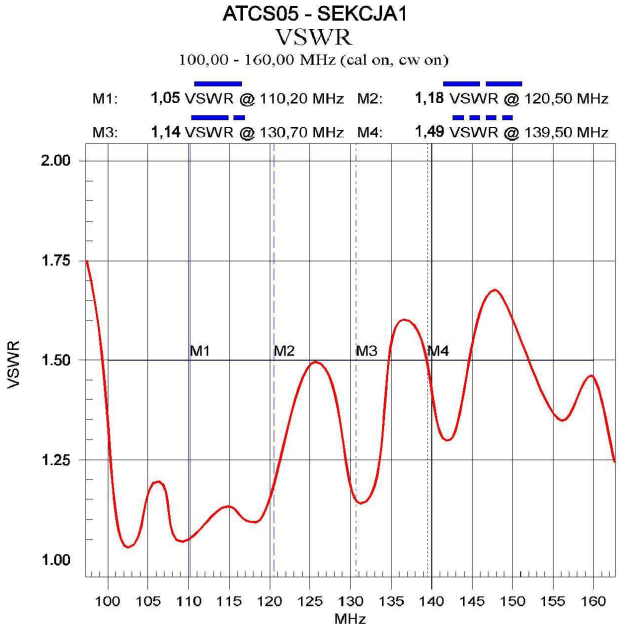
ATC S 03

ATC S03 consist of four transceiving sections designed and tuned in order to provide an even coverage of VHF and UHF bands. The antenna is enclosed in a tube made of plastic and covered with varnish resistant to environmental influences and UV radiation.

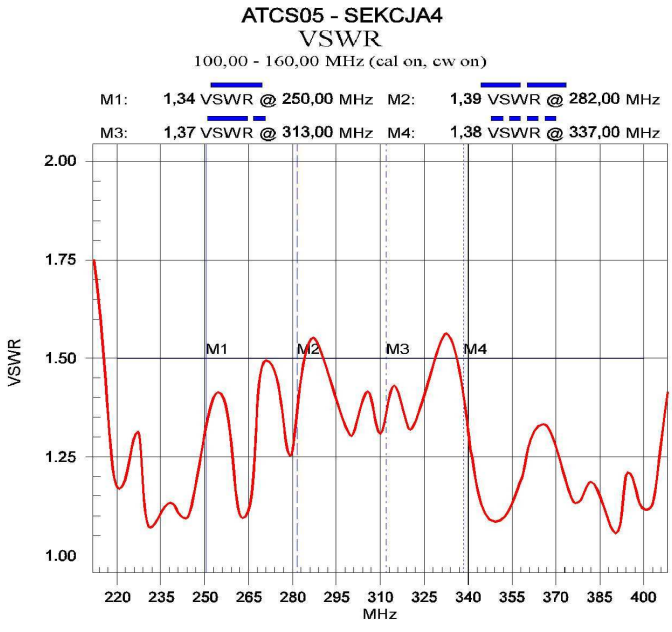
The top of antenna is equipped with LED obstruction light. In the bottom part there are connectors for feeding lines and power supply. The construction and location of all sections provides an adequate level of attenuation of crosstalks during simultaneous operation of two radio stations.

Antenna is equipped with the anti-freezing system preventing the mounting of thick layer of ice which might impede operation in UHF band and reduce the resistant to wind.

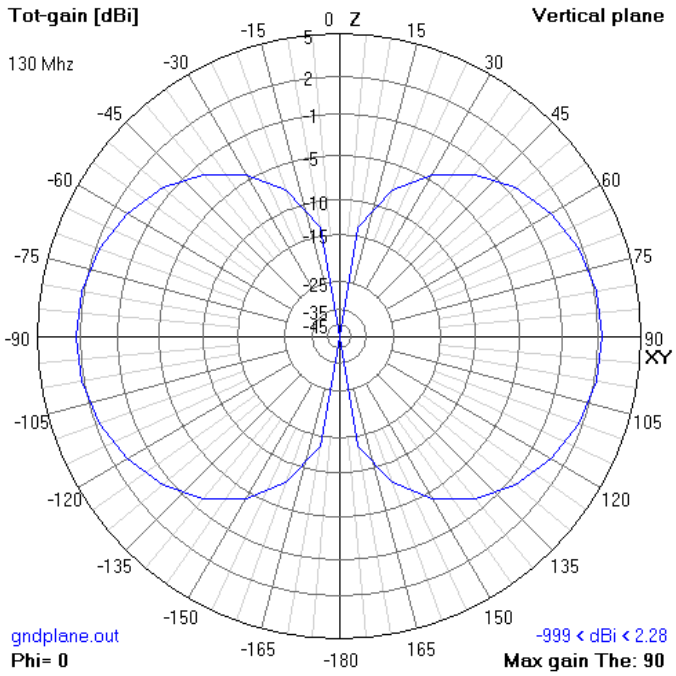
ELECTRICAL	
Gain for VHF	2,0 dB
Gain for UHF	2,0 dB
Horizontal radiation pattern	omnidirectional
Impedance	50 Ω
Antenna type	discone, colinear
VSWR	≤1.8 @ VHF, ≤1.8 @ UHF
VHF range	116 - 136 MHz
UHF range	200 - 400 MHz
Number of UHF sections	2
Maximum power	500 W
Polarization	vertical
Supply of obstruction light	12V / 0,6A
Obstruction light	red , 32 Cd
Horizontal radiation pattern code (H-plane)	**000ND00 (CEPT Recommendation T/R 25-08)**
Vertical radiation pattern code (E-plane)	**039DE00 (CEPT Recommendation T/R 25-08)**
MECHANICAL	
Connector	N, 7/16
Material	Aluminium
Painting	white / red or uniform
Total weight	40 kg
Lightning protection	Lightning rod on the top of antenna
Dimensions of base	767 x 767 mm
Total dimension (diameter/height)	250.0 / 33200.0 mm
Packaging	Carton box
Warranty period	12 months
Wind speed	40 m/s
CLIMATIC CONDITIONS	
Range of temperature	-40°C ÷ +70°C
Humidity	≤ 100% at +40°C



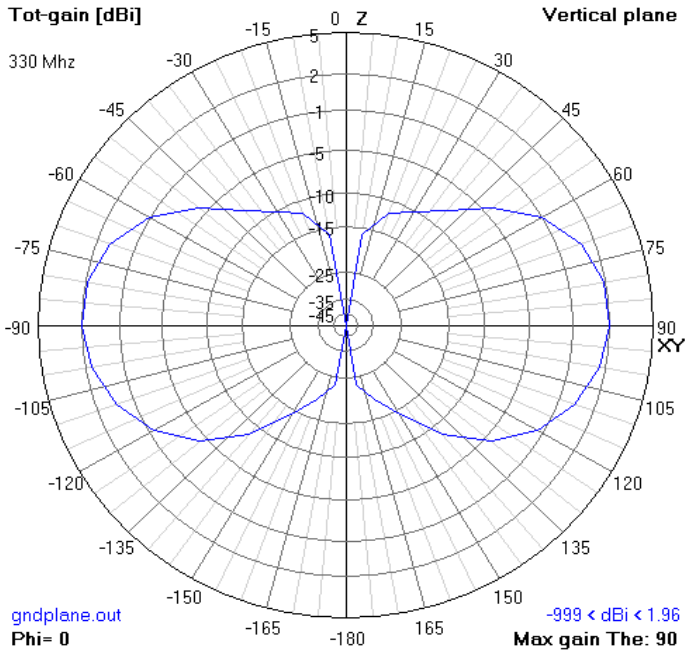
VSWR of ATC S 03 system, VHF section



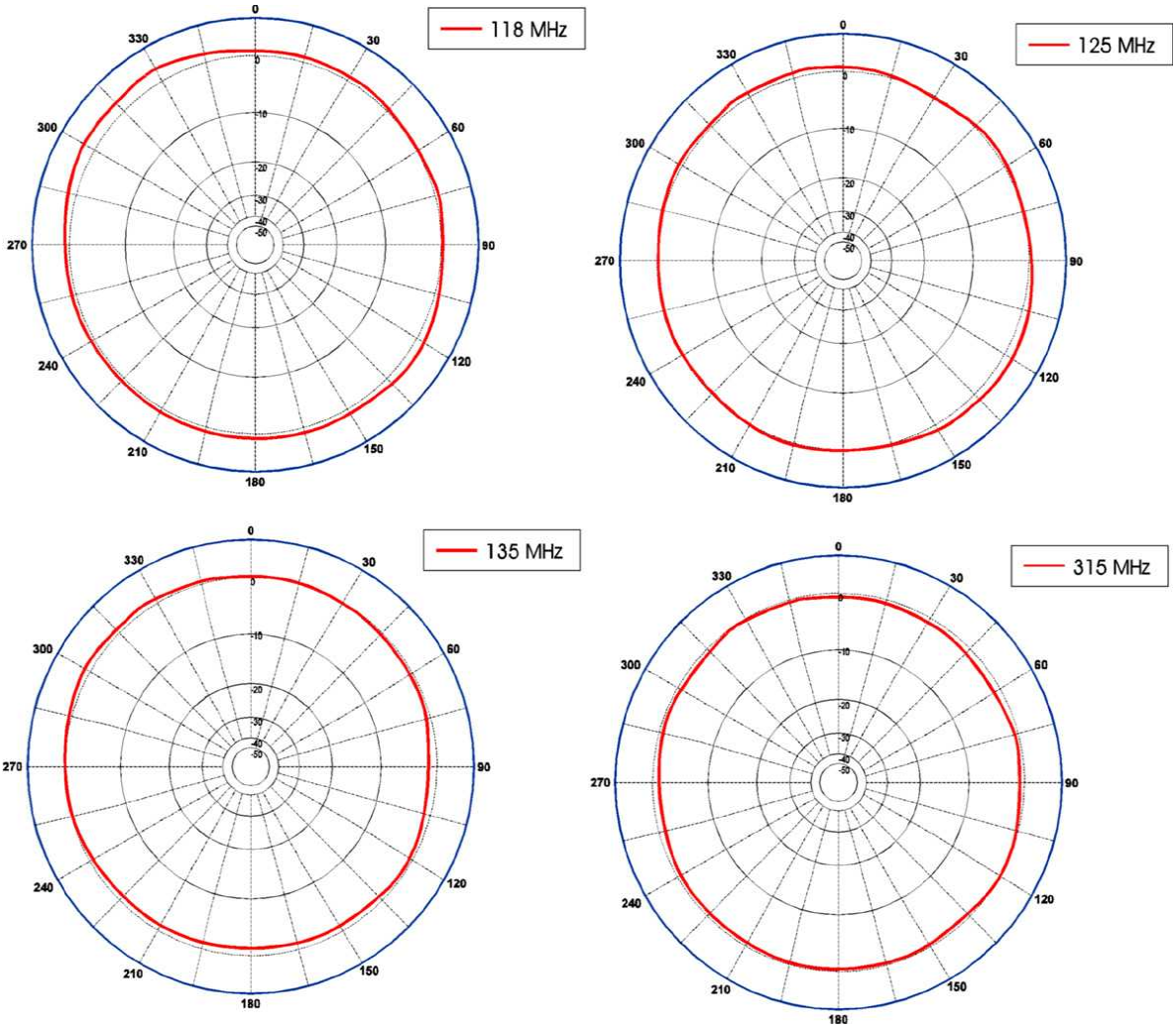
VSWR of ATC S 03 system, UHF section



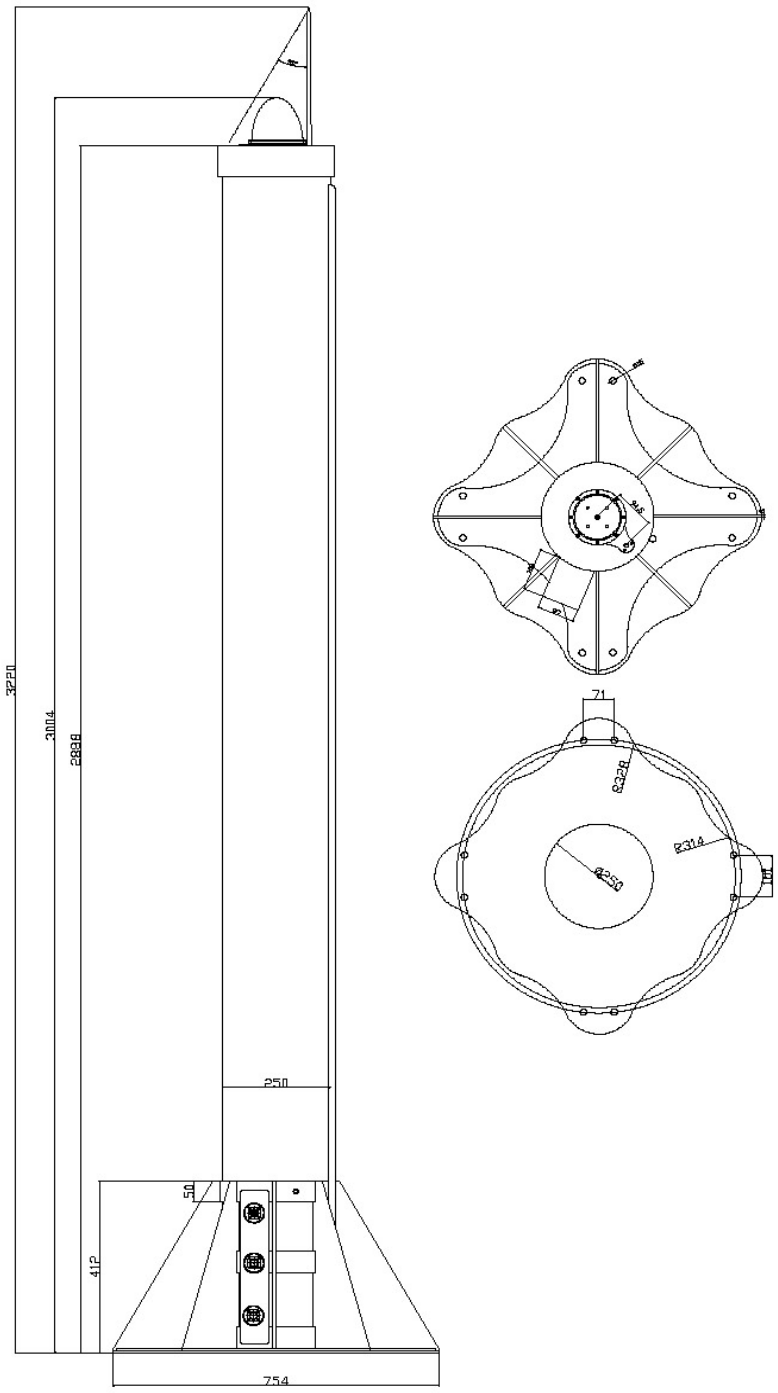
Vertical radiation pattern of ATC S03 system, VHF section



Vertical radiation pattern of ATC S03 system, UHF section



Horizontal radiation pattern of ATC S03 system



Dimensions of antenna and base

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