

# Wideband antenna system

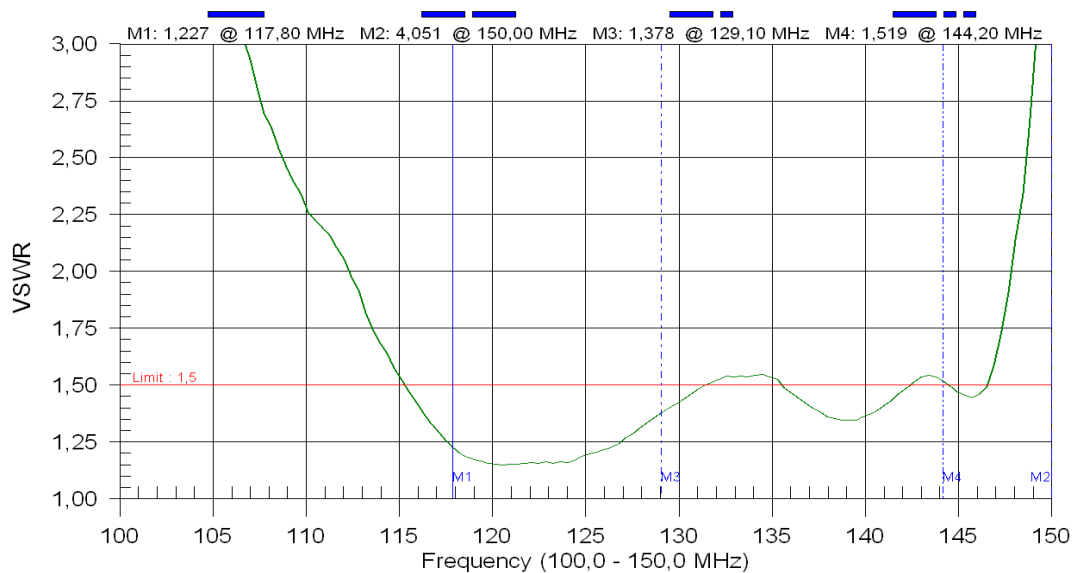
## ATC S-22M



The omnidirectional wideband antenna designed for cooperation with VHF/UHF radio stations. Waterproof construction and careful material selection ensure resistance to climatic conditions irrespective of climatic zones. The antenna is DC-grounded, there is an earthing clamp on the corpus of the antenna and lightning rod on the top. Independent VHF and UHF outputs allow direct connection to radio with separate bands. Connection to radio with a single VHF/UHF output can be realized via DUV-300 duplexer. An application: civil and military terrestrial and air communication systems, mobile command center.

ELECTRICAL	
Gain	VHF-3,5 dBi , UHF 3,5 dBi
Radiation pattern	omnidirectional
Impedance	50 $\Omega$
VSWR	< 1.6 @ VHF , 1,6 @ UHF
Frequency range	116 – 144 MHz , 220-400 MHz
Bandwidth	500 W
Deviation from onidirectional radiation pattern	< 1,0 dB
MECHANICAL	
Connector	2 x N
Material	Aluminum, fiberglass, stainless steel
Polarization	vertical
Weight	7,5 kg
Lightning protection	DC-grounded
Total dimensions (diameter/height)	110/ 2750 mm
Color	RAL 6003 (green) , RAL9003 (white)
Packaging	Carton box
Warranty period	36 months
Wind speed	180 km/h
CLIMATIC CONDITIONS	
Temperature range	-40°C ÷ +85°C
Humidity	$\leq$ 100% at +40°C

### VSWR



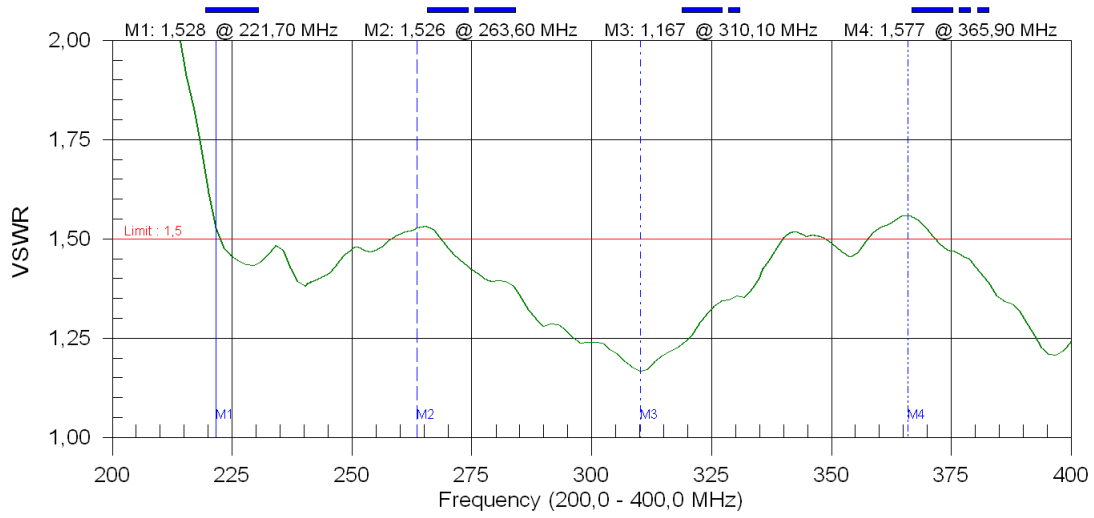
Resolution: 130  
Model: MS

CAL:ON(COAX)  
Serial #: 00000000

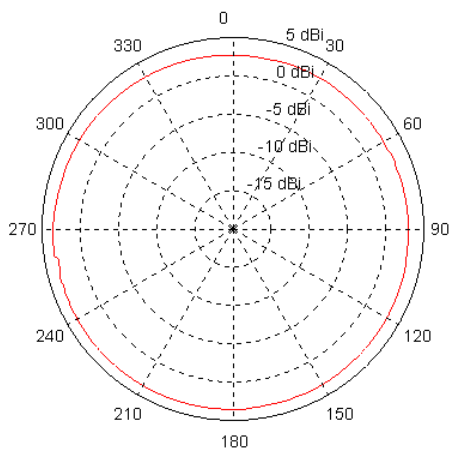
CW: ON  
Smoothing: 0

VSWR, VHF unit

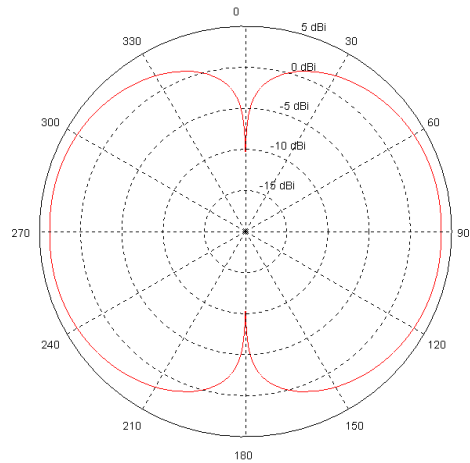
## VSWR



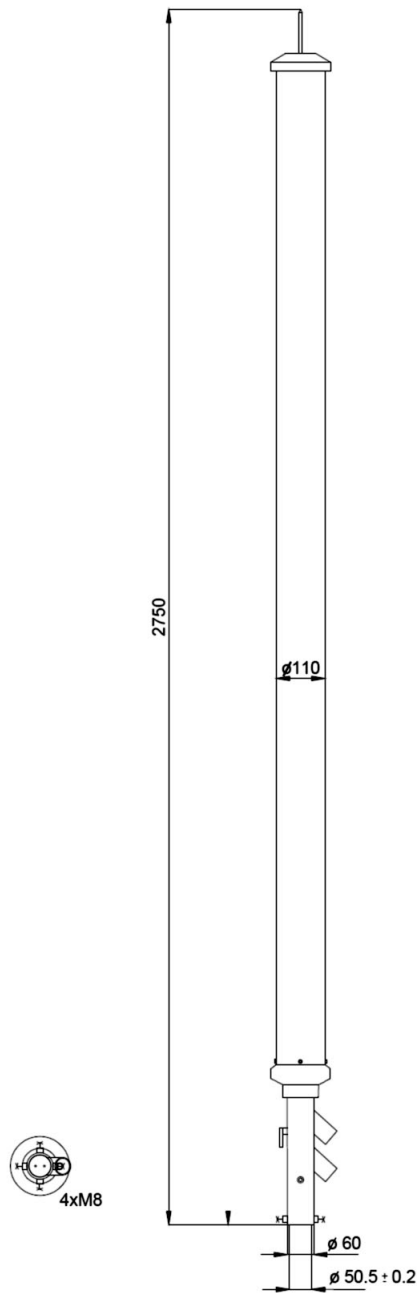
## VSWR, UHF unit



Horizontal radiation pattern



Vertical radiation pattern



Total dimensions of the ATC S-22M


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