

**WIDEBAND BASE STATION
ANTENNA
VDMA 118-400 MHz**



The omnidirectional antenna, vertically polarized, produced in versions covering the whole VHF and UHF bands. Waterproof construction and careful material selection ensure dependable service in all environments. Vertical radiation pattern is optimized and tuned with a special consideration of mobile radiocommunications operating in urban environment. The antenna is DC-grounded and there is a connector of ground wire on the mounting corpus. The VDMA is recommended for civil and military applications. The antenna was measured in the Institute of Telecommunications and Acoustics of Wrocław University of Technology.

ELECTRICAL

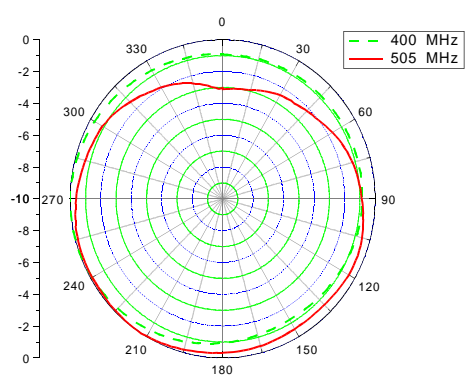
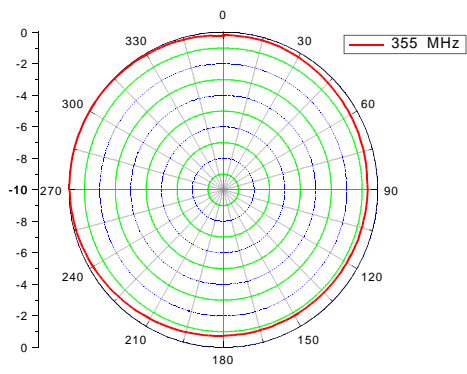
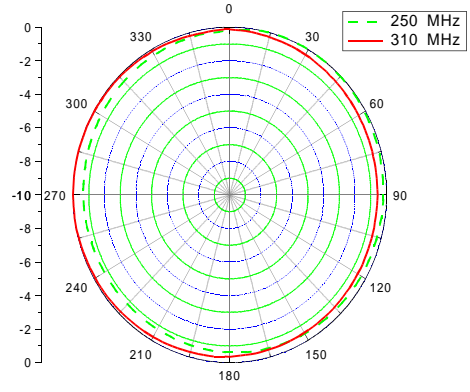
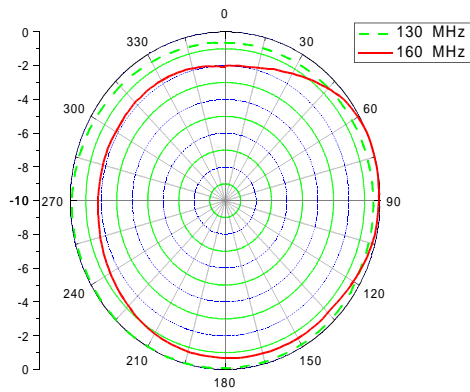
Gain	2,5 dBi @ 250 MHz
Horizontal radiation pattern	Omnidirectional
Impedance	50 Ω
Antenna type	DISCONE
VSWR	<2.3
Maximum power	500 W
Bandwidth	118 - 400 MHz
Vertical radiation pattern	Depends on frequency, shown below

MECHANICAL

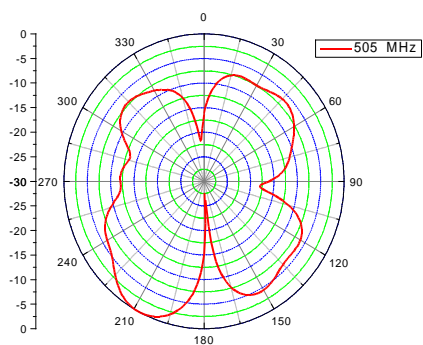
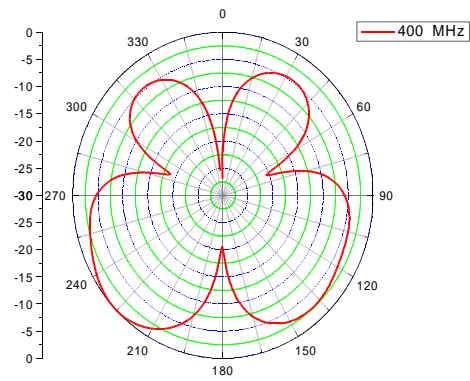
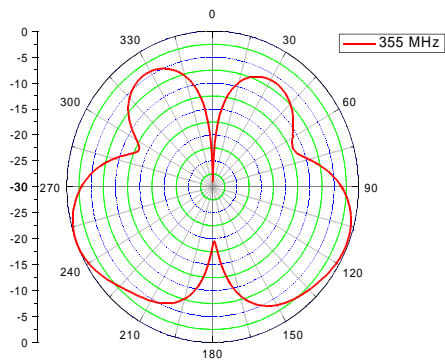
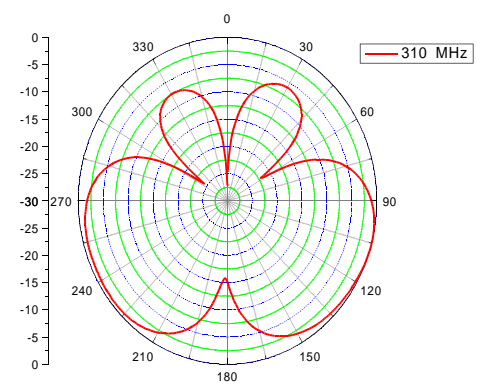
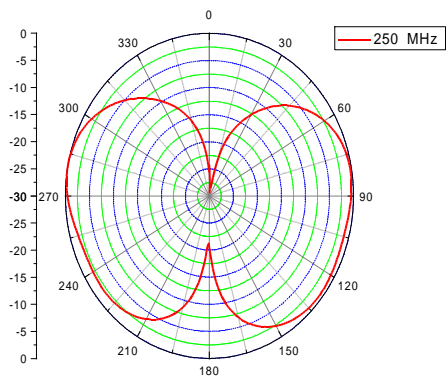
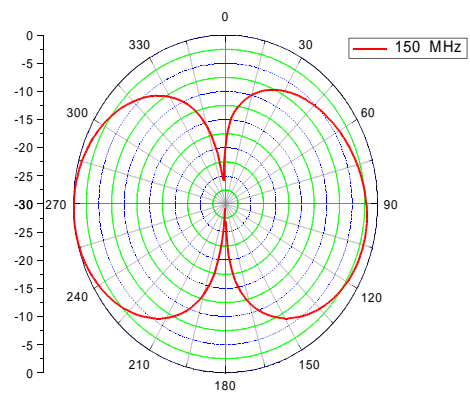
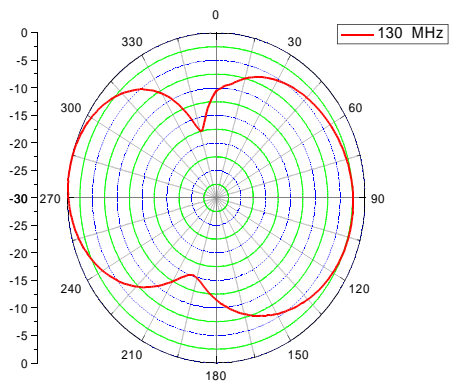
Connector	N female
Material	Aluminium covered with powder varnish
Polarization	vertical
Diameter of mounting mast	40-80mm
Weight	5kg
Lightning protection	galvanic, additional wire
Total height	1115,0 mm
Total diameter	700,0 mm
Diameter of base	50,0 mm
Warranty period	2 years
Packaging	Carton box
Wind speed	60m/s
Protection type	Powder varnish, RAL6010

CLIMATIC CONDITIONS

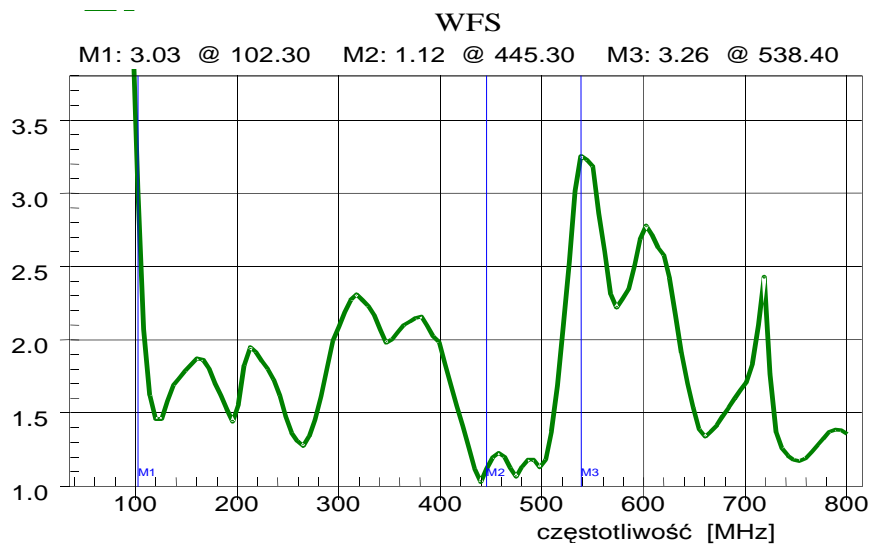
Temperature range	-40°C ÷ +70°C
Humidity	< 100% at +40°C



Horizontal radiation pattern

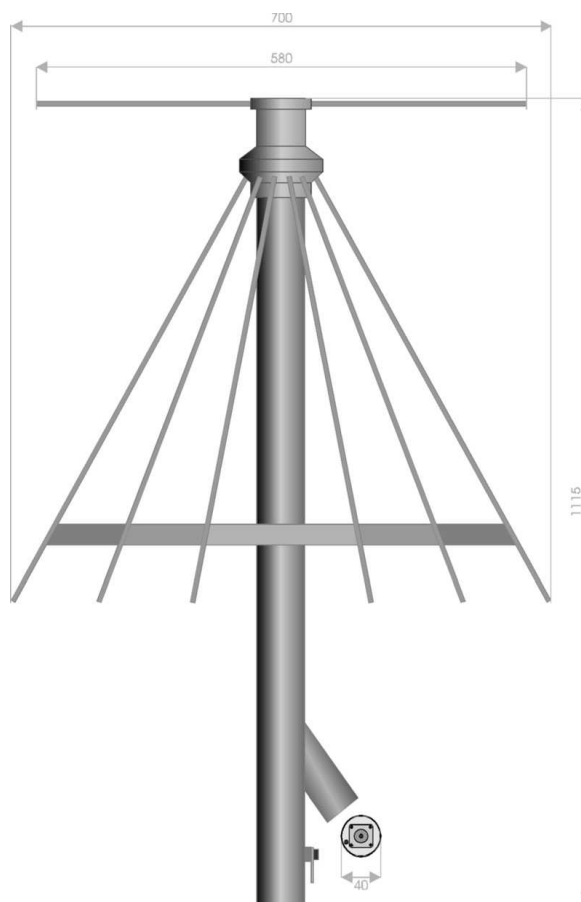


Vertical radiation pattern



VSWR measuring in the EMC laboratory

All measurement were performed in the EMC laboratory at Wrocław University of Technology



Dimensions of VDMA 118-400



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