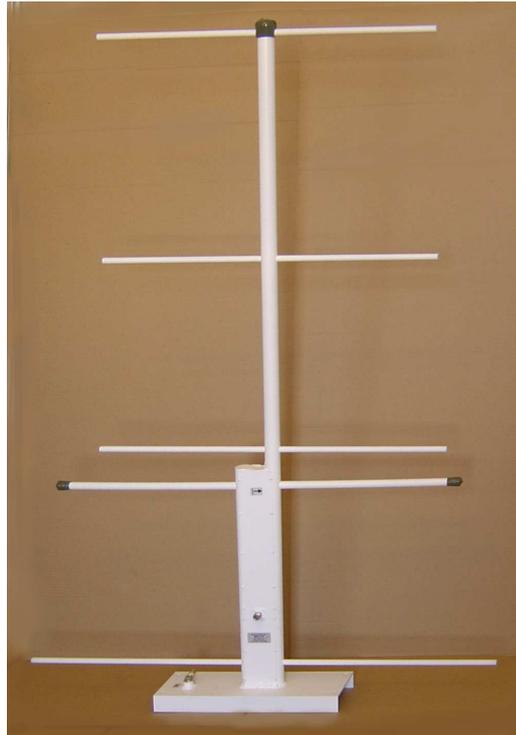


Directional antenna

BSD 155

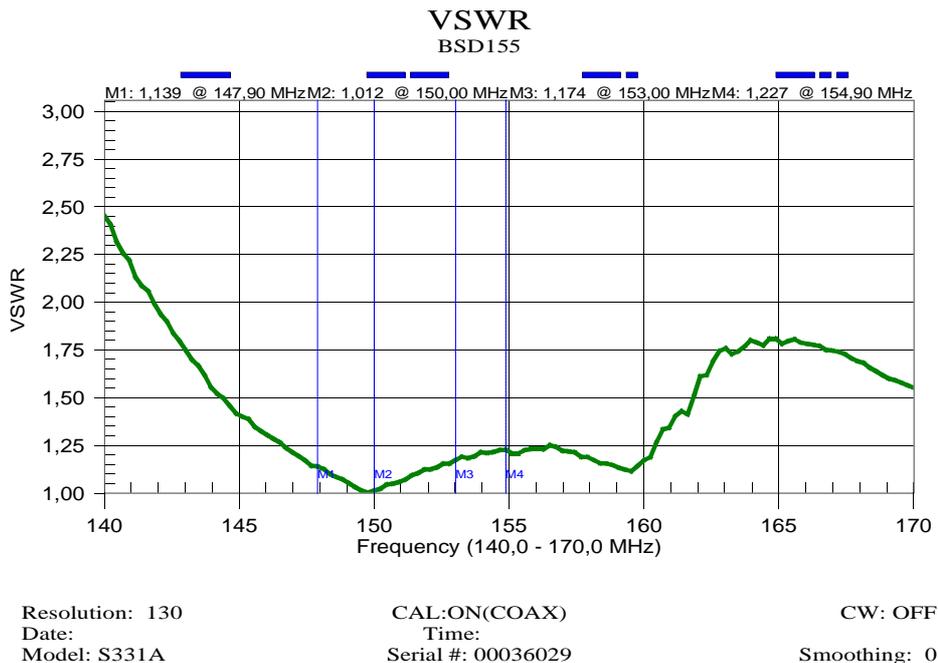


The antenna designed to base stations in mobile radiocommunication networks. The duraluminium welded construction is covered with powder varnish. The antenna is DC-grounded what ensures a resistance to all environmental conditions with a special consideration of highland installations, difficult-available high masts and unattended systems.

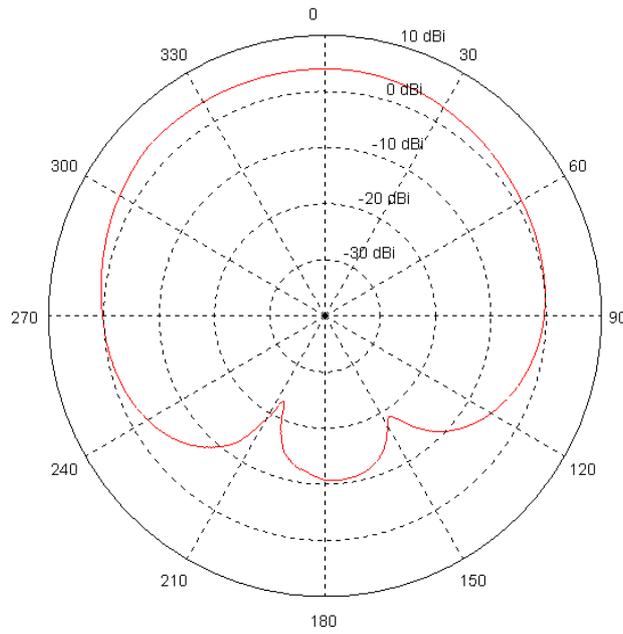
The antenna produced in versions consist of 2 or 3 elements.

BSD-type antennas are applied to create antenna arrays consist of 2, 3 or 4 units, what enables to elastic form vertical radiation pattern. A single reflector enables the installation of the antenna on any distance from the mounting mast, without affecting the shape of the radiation pattern.

ELECTRICAL	
Gain (ref. tp $\lambda/4$ dipole)	3 dBi (2 elements) , 4dBi (3 elements), 6.5dBi (5 elements)
Radiation pattern	Directional
Impedance	50 Ω
Antenna type	YAGI
VSWR	$\leq 1,5$
Maximum power	500 W
Bandwidth	15 MHz
Front to back ratio	20 dB
Horizontal radiation pattern code (H-plane)	040EB10 (CEPT Recommendation T/R 25-08)
Vertical radiation pattern code (E-plane)	050EB10 (CEPT Recommendation T/R 25-08)
MECHANICAL	
Connector	UC1, N, 7/16
Material	Aluminium PA 38,
Polarization	Vertical
Diameter of mounting mast	40-80 mm
Weight	2-3 kg
Lightning protection	Galvanic at the antenna corpus
Total length	1800 mm
Warranty period	2 years
Packaging	Carton box
Wind speed	45 m/s
CLIMATIC CONDITIONS	
Temperature range	-40°C ÷ +70°C
Humidity	$\leq 100\%$ at +40°C



VSWR measuring in free space



Vertical radiation pattern measuring in free space



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