

Base station antenna

BSG UHF 400 N



The half-wave dipole type antenna with reflector forming radiation pattern. The antenna is produced in version covering the whole UHF 400 MHz band. In common-phase antenna arrays the BSG 150 enables form horizontal radiation pattern in the range 140 – 360 degrees. An aluminium welded construction is covered with a powder varnish ensuring resistance to climatic conditions. A handle on a back side of antenna enables easy mounting direct at mast as a single antenna or in antenna arrays using toehold. Considering a high emission power the antenna is recommended to application in broadcasting centers. The BSG UHF (220-400 MHz) enables create omnidirectional or directional radiocommunication systems. Folded-out construction optimizes costs of transport and storing. The antenna is also produced in version with anti-freezing system.

ELECTRICAL

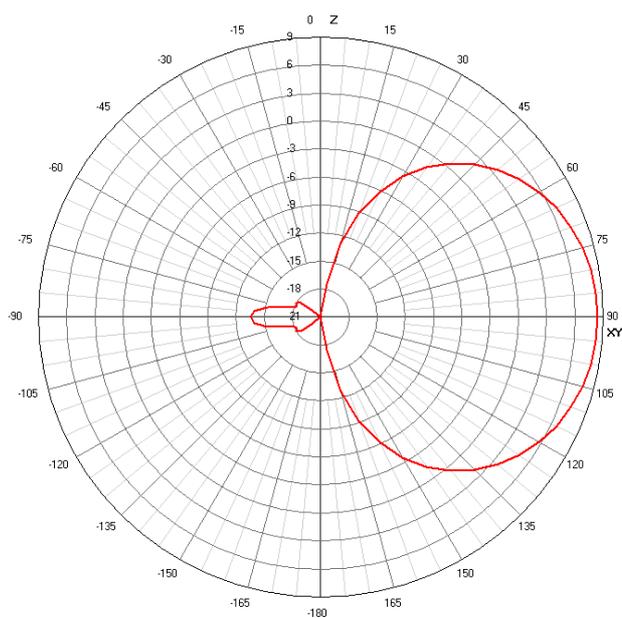
Gain	8,5 dBi
Radiation pattern	directional
Impedance	50 Ω
Antenna type	panel
Maximum power	300 W
VSWR	<1,5
Frequency range	400 – 500 MHz
Bandwidth	Versions for a bandwidth of 35 MHz
Horizontal radiation pattern code (H-plane)	045EB10 (CEPT Recommendation T/R 25-08)
Vertical radiation pattern code (E-plane)	030EB10 (CEPT Recommendation T/R 25-08)
Front to back ratio	22 dB

MECHANICAL

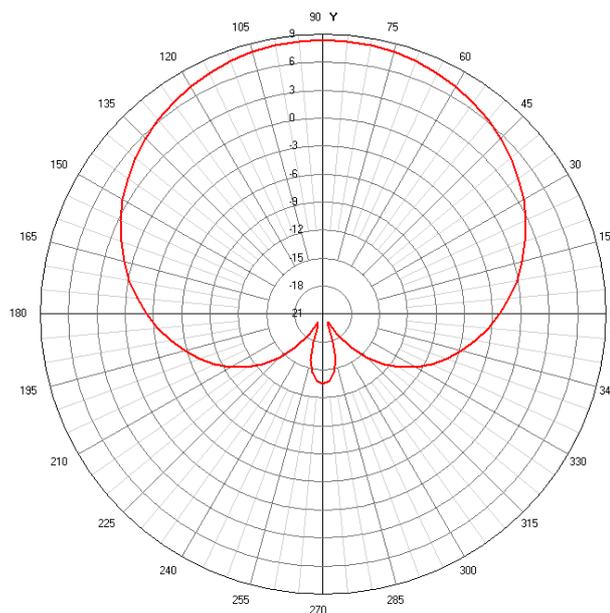
Connector type	N, 7/16
Material	Aluminum, welded
Polarization	Vertical, horizontal
Diameter of mounting mast	150 - 480 mm
Weight	5,5 kg
Lightning protection	DC-grounded
Radiator dimensions	1200x 700 mm
Warranty period	48 months
Packaging	Carton box, wrap
Wind speed	180 km/h

CLIMATIC CONDITIONS

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



Vertical radiation pattern



Horizontal radiation pattern



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