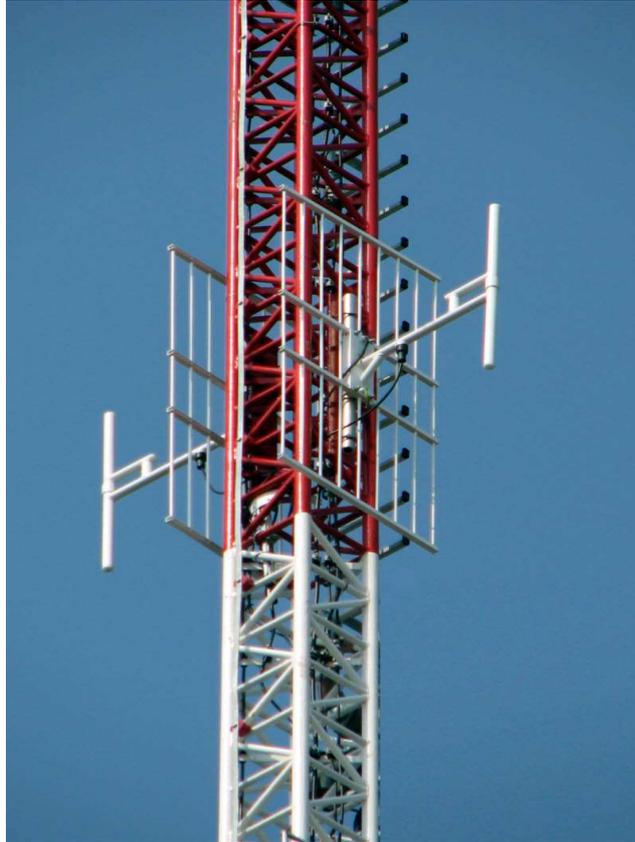


BASE STATION ANTENNA

BSG VHF 150/A



The wideband dipole type antenna with reflector forming radiation pattern. The antenna is produced in three versions covering the whole VHF 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 small active surface ensures resistance to ice and wind in all environments. 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 150/A version (117 – 144MHz) enables create omnidirectional or directional air communication systems.

Folded-out construction optimize costs of transport and storing.

ELECTRICAL

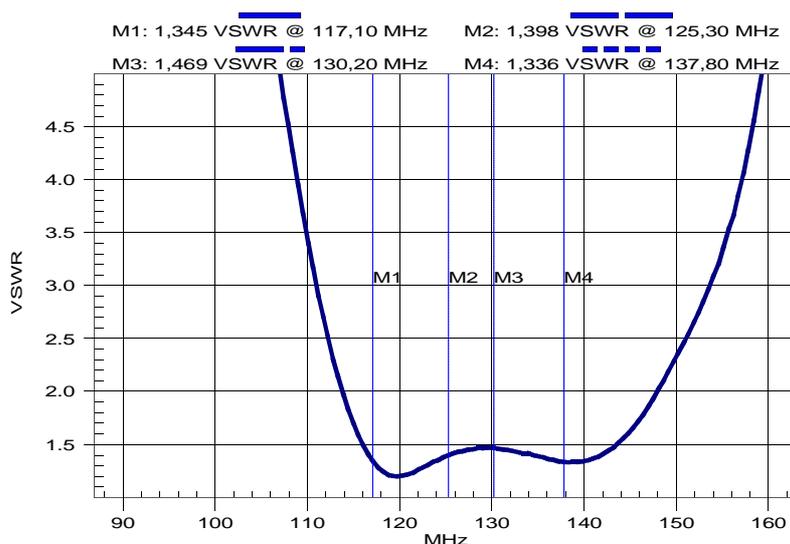
Gain	7,0 dB
Radiation pattern	Directional
Impedance	50 Ω
Antenna type	panel
Maximum power	500 W
VSWR	<1,5
Frequency range	100-167MHz @ ver.1 , 116-145 MHz @ ver.2 , 144 - 174 MHz @ ver.3
Bandwidth	29 Mhz @ SWR <1,5 for ver. 1
Horizontal radiation pattern code (H-plane)	070EB10 (CEPT Recommendation T/R 25-08)
Vertical radiation pattern code (E-plane)	038EB10 (CEPT Recommendation T/R 25-08)

MECHANICAL

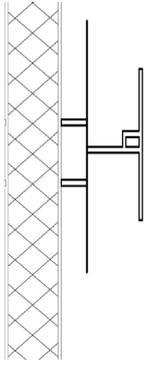
Connector	N, 7/16
Material	Aluminium, weld
Polarization	Horizontal, vertical
Diameter of mounting mast	FI 150 - 480 mm
Weight	9 ,5 kg
Lightning protection	DC-grounded
Radiator dimensions	1800x 800 mm
Warranty period	48 months
Packaging	Carton box, wrap
Wind speed	180 km/h
MTBF	> 250 000 h

CLIMATIC CONDITIONS

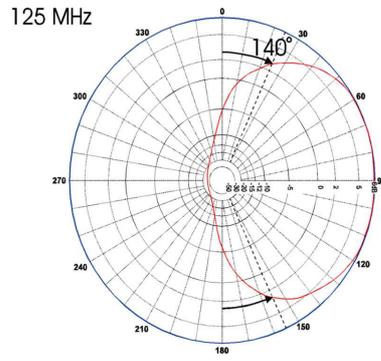
Temperature range	-40°C ÷ +85°C
Humidity	\leq 100% at +40°C



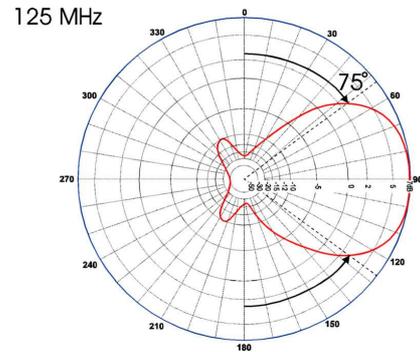
VSWR of the BSG 150 antenna



Configuration of antenna system

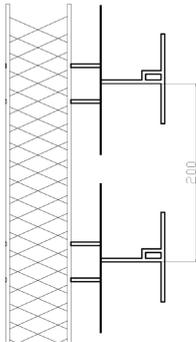


horizontal radiation pattern

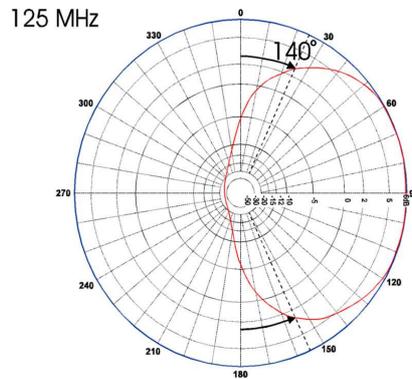


vertical radiation pattern

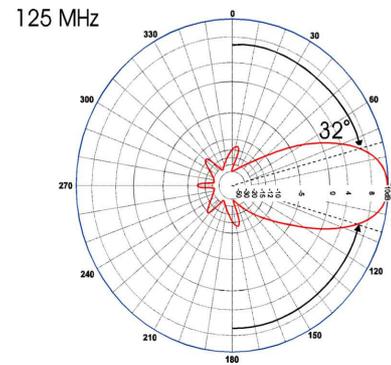
1. Gain in vertical plane 7dB, radiation pattern H 140, E 75



Configuration of antenna system

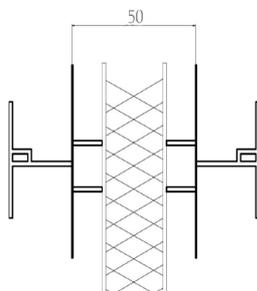


horizontal radiation pattern

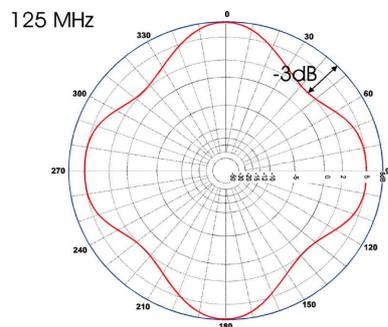


vertical radiation pattern

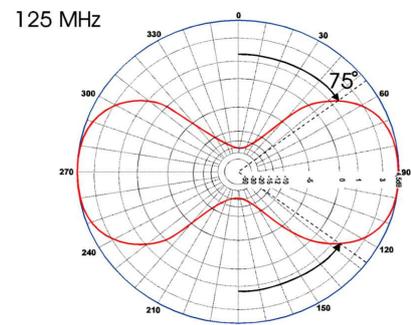
2. Gain in vertical plane 10 dB, radiation pattern H 140, E 32



Configuration of antenna system

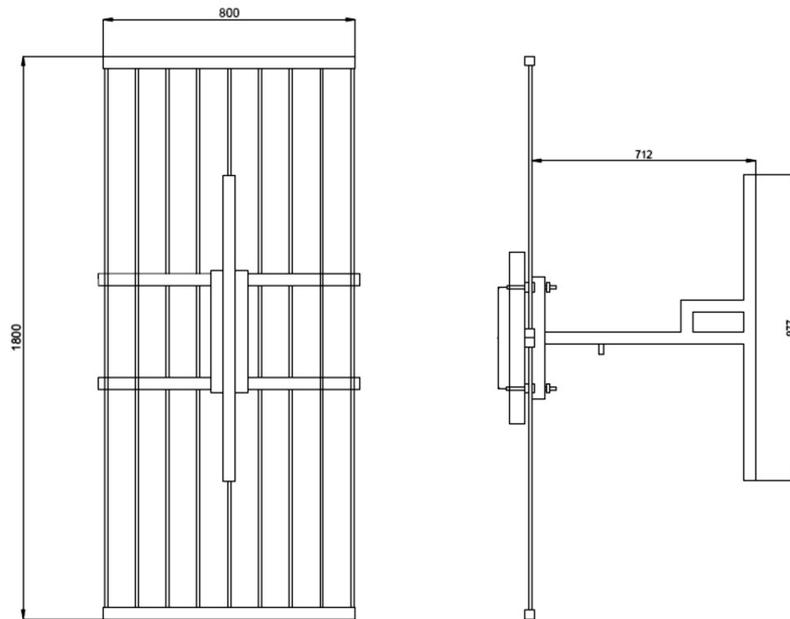


horizontal radiation pattern

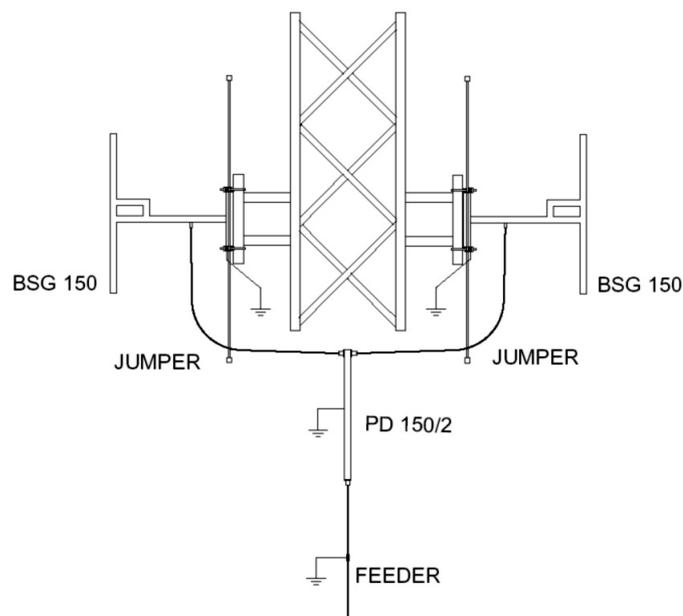


vertical radiation pattern

3. Gain in vertical plane 4,5dB, radiation pattern H 360, E 75



Dimensions of BSG VHF 150/A



The BSG 150 antennas in a dual system assuring an omnidirectional radiation pattern



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