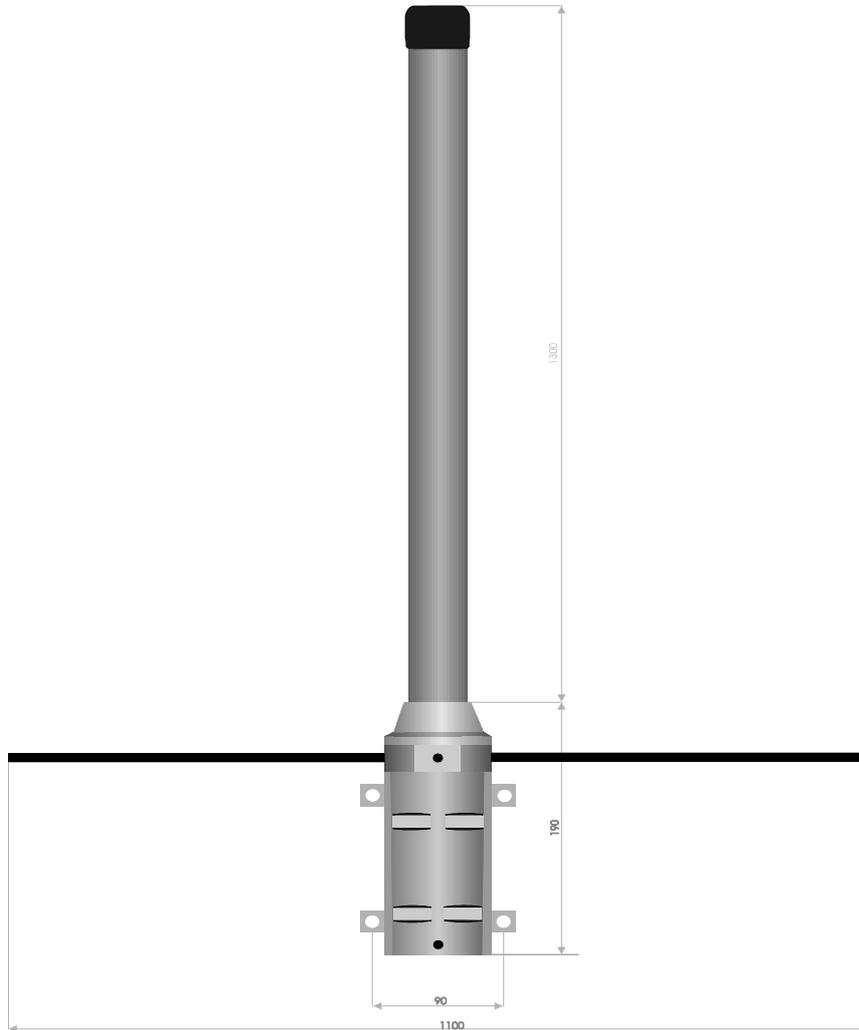


# BASE STATION ANTENNA

## BS-VHF 100-175 MHz



The omnidirectional antenna, vertically polarized, produced in versions covering the whole VHF band. BS 150 is a GP type antenna, designed for a center of bandwidth and covers 4MHz bandwidth with VSWR less than 1.5. 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 in the bottom part of corpus made of aluminium. The antenna might be produce with cover made of PCV or fiberglass in whole colour palette. The BS150 has equivalents in 430, 470, 868, 900,1300 MHz bands. There are two versions of mounting of feeding lines, inside and outside mast tube. The BS series antennas have been produced for over 15 years, also in the fiberglass cover for military applications.

## ELECTRICAL

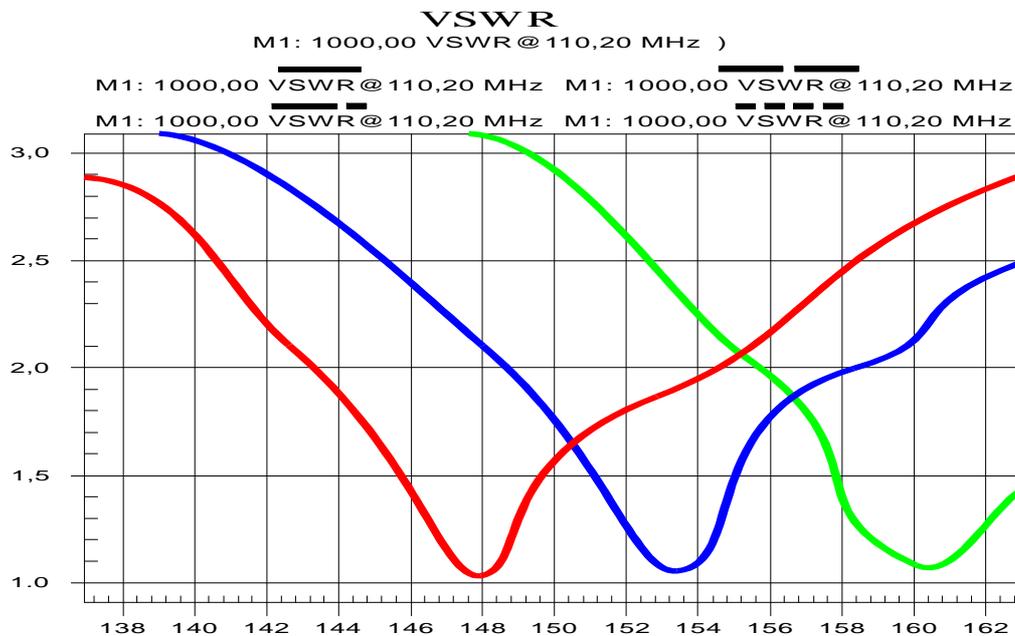
Gain (ref. to $\lambda/4$ dipole)	3,5 dBi
Horizontal radiation pattern	omnidirectional
Impedance	50 $\Omega$
Antenna type	5/8 $\lambda$
VSWR	$\leq 1,2$
Maximum power	50 W
Bandwidth	4 MHz
Vertical pattern	
Horizontal radiation pattern code (H-plane)	000ND00 (CEPT Recommendation T/R 25-08)
Vertical radiation pattern code (E-plane)	015DE00 (CEPT Recommendation T/R 25-08)

## MECHANICAL

Connector	N, UC1
Material	Aluminium, PCV,
Polarization	vertical
Diameter of of mounting mast	40-80mm
Weight	3 kg
Lightning protection	galvanic, additional wire
Total height	1500 mm
Total diameter	1100 mm
Warranty perion	2 years
Packaging	Carton box
Distance between mounting handles	95 mm
Wind speed	40 m/s

## CLIMATIC CONDITIONS

Range of temperature	-40°C ÷ +70°C
Himidity	< 100% at +40°C



VSWR of BS VHF antennas

# BS148

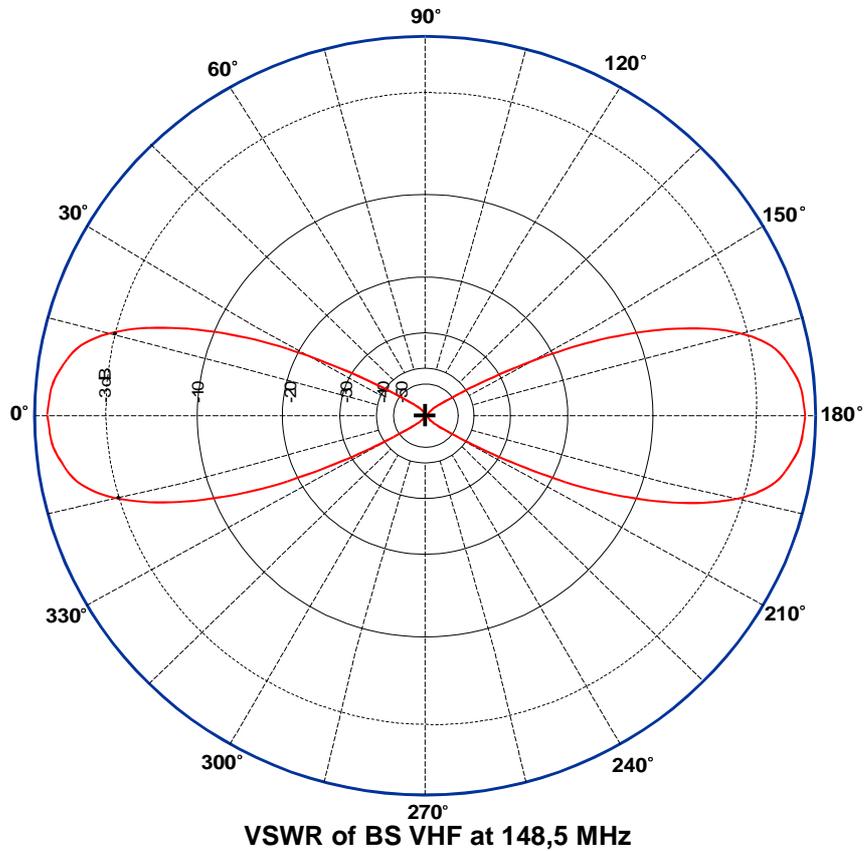
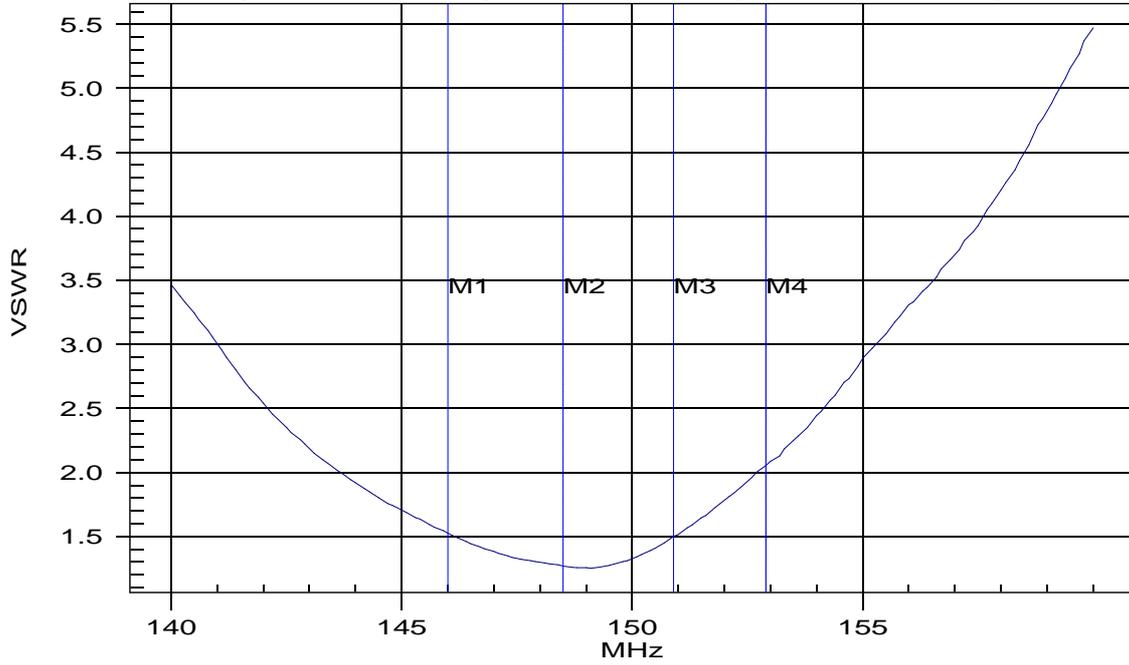
140,00 - 160,00 MHz (cal on, cw on)

M1: 1,525 VSWR @ 146,00 MHz

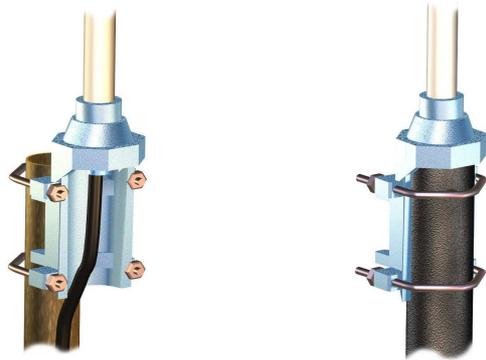
M2: 1,268 VSWR @ 148,50 MHz

M3: 1,50 VSWR @ 150,90 MHz

M4: 2,053 VSWR @ 152,90 MHz



Vertical radiation pattern measuring in free space



Two types of mounting BS antenna



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