

# BASE STATION ANTENNA

**BS800 V 840-880 MHz**



The omnidirectional antenna, vertically polarized, designed for telemetric applications in ISM 868MHz band. Waterproof construction and careful material selection ensure long dependable service in all environments. Produced in two versions, typical with N connector and extended mounting part to place radio unit preventing signal loss, direct linking to radiation element by short segment of the cable RG 174. The extended version of antenna is called BS 800R and has additional locking disc with connectors for power supply and data wire.

## ELECTRICAL

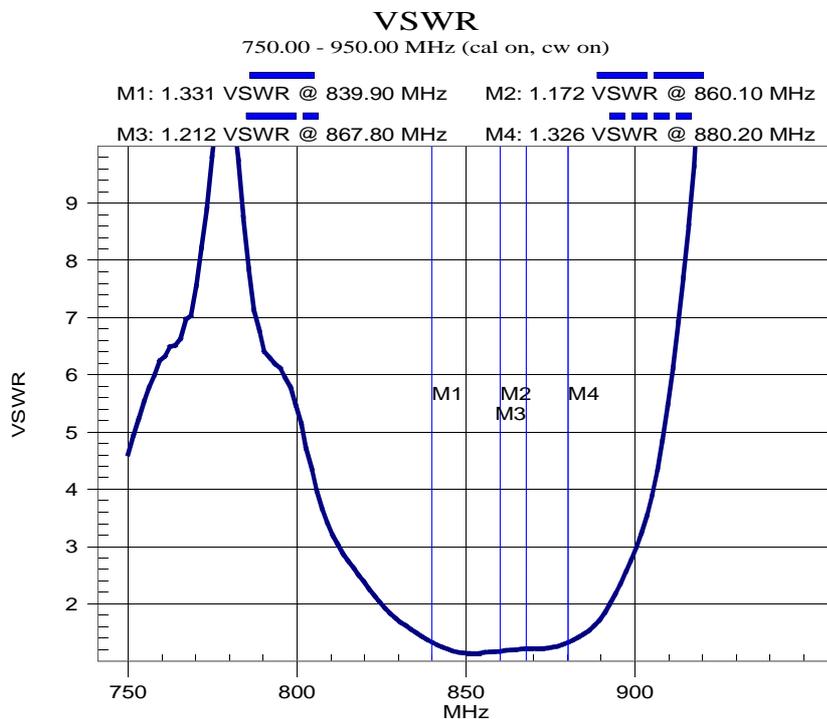
<b>Gain (ref. to <math>\lambda/4</math> dipole)</b>	8,5 dBi
<b>Horizontal radiation pattern</b>	Omnidirectional
<b>Impedance</b>	50 $\Omega$
<b>Antenna type</b>	6 x $1/4 \lambda$
<b>VSWR</b>	$\leq 1,3$
<b>Maximum power</b>	50 W
<b>Bandwidth</b>	840-880 MHz
<b>Horizontal radiation pattern code (H-plane)</b>	000ND00 (CEPT Recommendation T/R 25-08)
<b>Vertical radiation pattern code (E-plane)</b>	015DE20 (CEPT Recommendation T/R 25-08)

## MECHANICAL

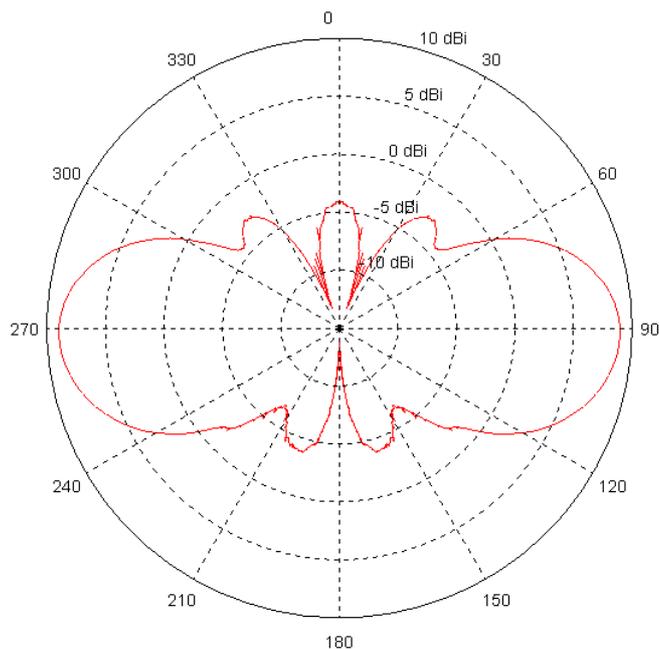
<b>Connector</b>	N,
<b>Material</b>	Aluminium, PCV,
<b>Polarization</b>	vertical
<b>Diameter of mounting mast</b>	40-80mm
<b>Weught</b>	1,0kg
<b>Lightning protection</b>	galvanic, additional wire
<b>Height/diameter</b>	650/40 mm
<b>Warranty period</b>	2 years
<b>Packaging</b>	Carton box
<b>Wind speed</b>	60 m/s

## CLIMATIC CONDITIONS

<b>Temperature range</b>	-40°C ÷ +70°C
<b>Humidity</b>	$\leq 100\%$ at +40°C



**VSWR**



**Vertical radiation pattern of BS 800V**



**Construction details**



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