

BASE STATION ANTENNA

BS800 UHF 850-900 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

Gain (ref. to $\lambda/4$ dipole)	10,0 dBi
Horizontal radiation pattern	Omnidirectional
Impedance	50 Ω
Antenna type	6 x 5/8 λ
VSWR	$\leq 1,5$
Maximum power	50 W
Bandwidth	810-1000 MHz
Horizontal radiation pattern code (H-plane)	000ND00 (CEPT Recommendation T/R 25-08)
Vertical radiation pattern code (E-plane)	008DE40 (CEPT Recommendation T/R 25-08)

MECHANICAL

Connector	N,
Material	Aluminium, PCV,
Polarization	vertical
Diameter of mounting mast	40-80mm
Weight	1,0kg
Lightning protection	galvanic, additional wire
Height/diameter	1300/40 mm
Warranty period	2 years
Packaging	Carton box
Wind speed	40 m/s

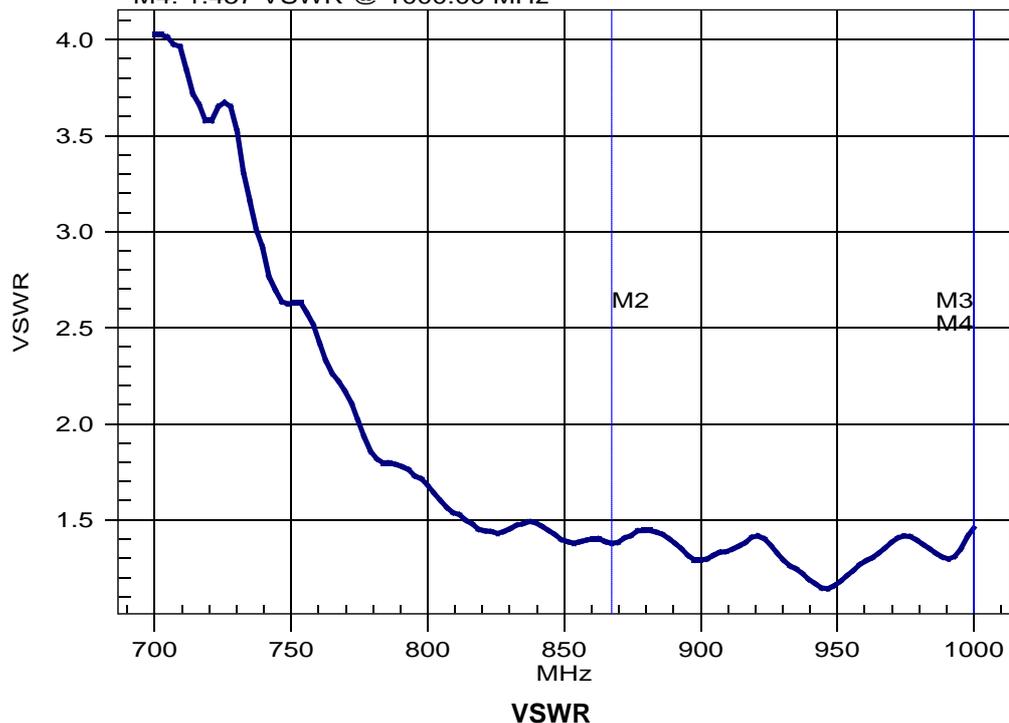
CLIMATIC CONDITIONS

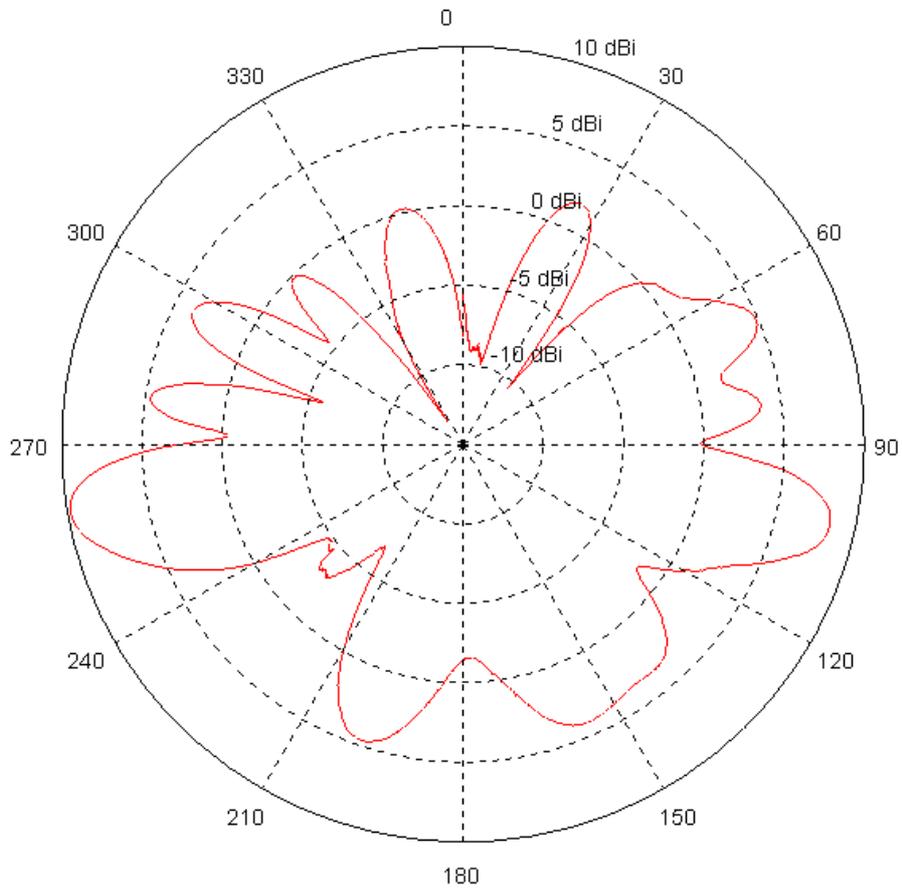
Temperature range	-40°C ÷ +70°C
Humidity	$\leq 100\%$ at +40°C

BS 800

700,00 - 1000,00 MHz (cal on)

M2: 1.378 VSWR @ 867.40 MHz
M3: 1.457 VSWR @ 1000.00 MHz
M4: 1.457 VSWR @ 1000.00 MHz





Vertical radiation pattern of BS 800, at 870MHz, measuring in a free space



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