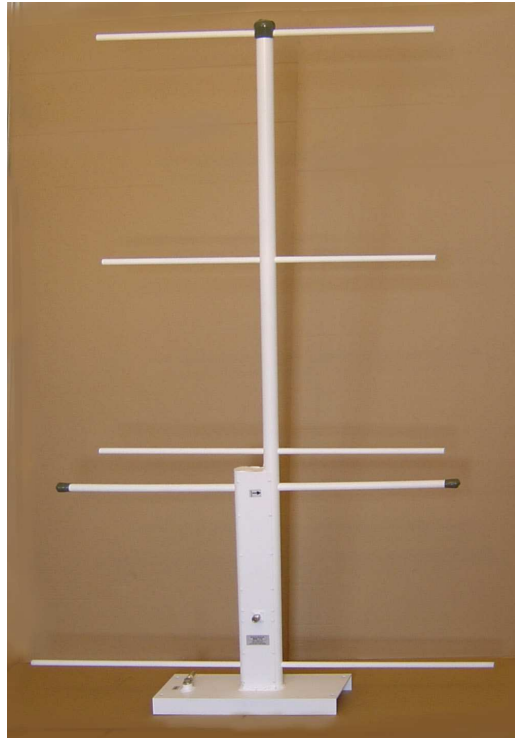


Directional antenna

BSD 170

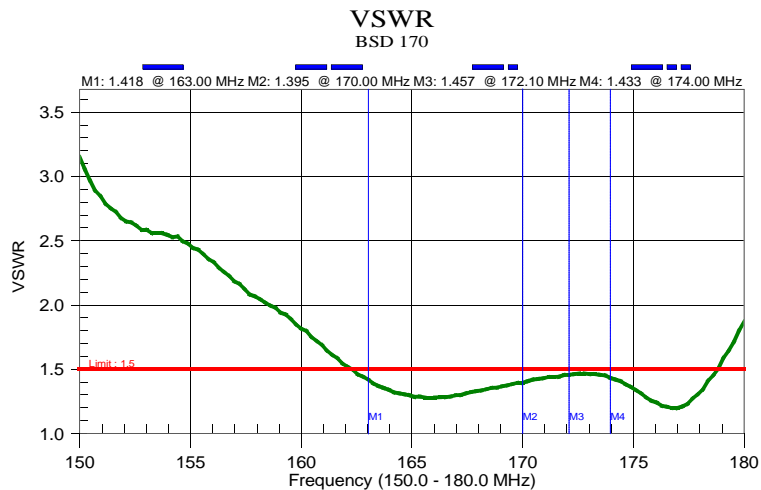


The antenna designed to base stations in mobile radiocommunication networks. The duraluminium welded construction is covered with powder varnish. The antenna is DC-grounded what ensures a resistance to all environmental conditions with a special consideration of highland installations, difficult-available high masts and unattended systems.

The antenna produced in versions consist of 2, 3 or 5 elements.

BSD-type antennas are applied to create antenna arrays consist of 2, 3 or 4 units, what enables to elastic form vertical radiation pattern. A single reflector enables the installation of the antenna on any distance from the mounting mast, without affecting the shape of the radiation pattern.

| ELECTRICAL | |
|---|--|
| Gain (ref. tp $\lambda/4$ dipole) | 6.5dBi (5 elements) |
| Radiation pattern | Directional |
| Frequency range | 130 - 180MHz |
| Impedance | 50 Ω |
| Antenna type | YAGI |
| VSWR | $\leq 1,45$ |
| Maximum power | 500 W |
| Bandwidth | 15 MHz |
| Front to back ratio | 18 dB |
| Horizontal radiation pattern code (H-plane) | 040EB10 (CEPT Recommendation T/R 25-08) |
| Vertical radiation pattern code (E-plane) | 050EB10 (CEPT Recommendation T/R 25-08) |
| MECHANICAL | |
| Connector | UC1, N, 7/16 |
| Material | Aluminium PA 38, |
| Polarization | Vertical |
| Diameter of mounting mast | 40-80 mm |
| Weight | 2-3 kg |
| Lightning protection | Galvanic at the antenna corpus |
| Total length | 1010,0 mm @ 170 MHz |
| Warranty period | 2 years |
| Packaging | Carton box |
| Wind speed | 45 m/s |
| CLIMATIC CONDITIONS | |
| Temperature range | -40°C ÷ +70°C |
| Humidity | $\leq 100\%$ at +40°C |

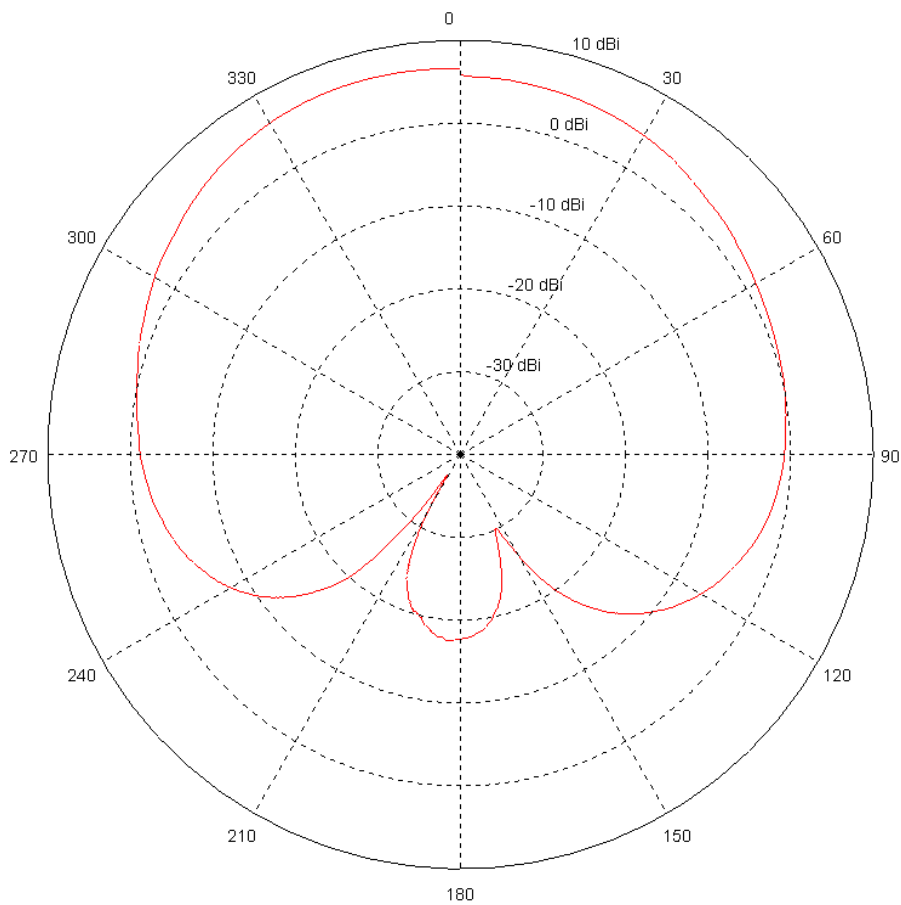


Resolution: 130

CAL:ON(COAX)

CW: ON

VSWR measuring in free space



Vertical radiation pattern measuring in free space



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