

BASE STATION ANTENNA

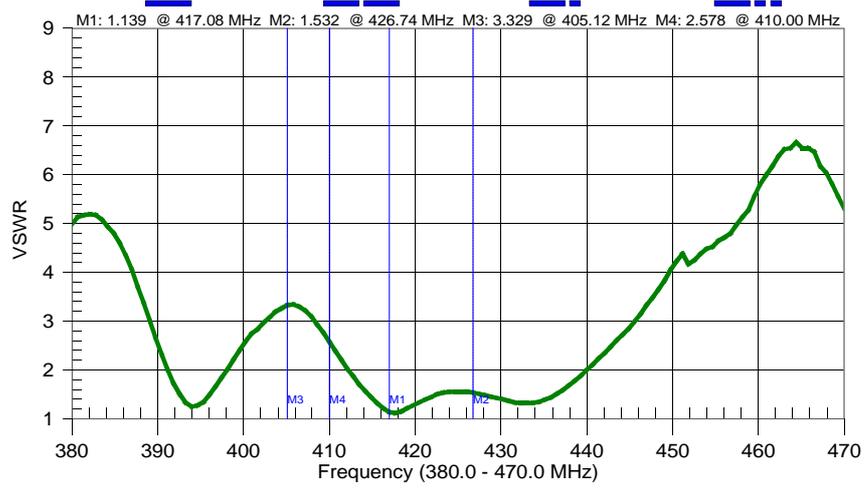
BSN-UHF 400 – 470MHz



The colinear 8x 1/2 antenna, produced in versions covering the whole VHF and UHF bands. Considering a radiation pattern, which has the main lobe in a plane parallel to the plane of the earth, the antenna is recommended for wide terrestrial radiocommunication systems and air applications. The antenna is enclosed in 5 meters long, fiberglass tube. The outer surface is covered with a polyester resin preventing erosion of the fiberglass laminate. The antenna is DC-grounded and has connector for lightning protection system. Produced in two versions, VHF 130-180 MHz and UHF 400-470 MHz. BSN antennas have a certificate of Institute of Telecommunications and Acoustics of Wrocław University of Technology. Antennas have been produced for 12 years and operated in the most difficult conditions of the environment.

ELECTRICAL															
Gain (ref. to $\lambda/2$ dipole)	8 dB														
Horizontal radiation pattern	Omnidirectional														
Impedance	50 Ω														
Antenna type	colinear, 8 x $1/2 \lambda$														
VSWR	$\leq 1,5$														
Maximum power	200 W														
Bandwidth	20 MHz														
Versions of antenna depending on a range of frequency	<table border="1"> <thead> <tr> <th>Version</th> <th>Bandwidth [MHz]</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>400-420</td> </tr> <tr> <td>2</td> <td>410-430</td> </tr> <tr> <td>3</td> <td>420-440</td> </tr> <tr> <td>4</td> <td>430-450</td> </tr> <tr> <td>5</td> <td>440-460</td> </tr> <tr> <td>6</td> <td>450-470</td> </tr> </tbody> </table> <p>Versions for other frequency range are also available on demand</p>	Version	Bandwidth [MHz]	1	400-420	2	410-430	3	420-440	4	430-450	5	440-460	6	450-470
Version	Bandwidth [MHz]														
1	400-420														
2	410-430														
3	420-440														
4	430-450														
5	440-460														
6	450-470														
Horizontal radiation pattern code (H-plane)	000ND00 (CEPT Recommendation T/R 25-08)														
Vertical radiation pattern code (E-plane)	003DE18 (CEPT Recommendation T/R 25-08)														
MECHANICAL															
Connector	N, UC1, 7/16														
Material	Aluminium, fiberglass,														
Polarization	vertical														
Diameter of mounting mast	50mm														
Weight	5 kg														
Lightning protection	galvanic, additional wire														
Total height	5230 mm														
Warranty period	2 years														
Packaging	Carton box														
Height of mounting tube	610 mm														
Wind speed	45 m/s														
CLIMATIC CONDITIONS															
Temperature range	-40°C ÷ +70°C														
Humidity	$\leq 100\%$ at +40°C														

VSWR BSN - UHF

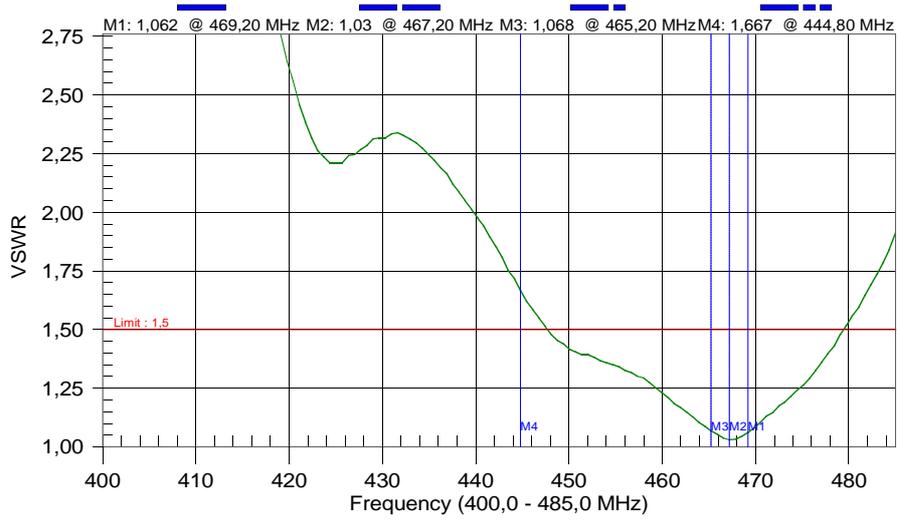


Resolution: 130
Date:
Model: S331A

CAL:ON(COAX)
Time:
Serial #: 00036029

CW: OFF

VSWR BSN450

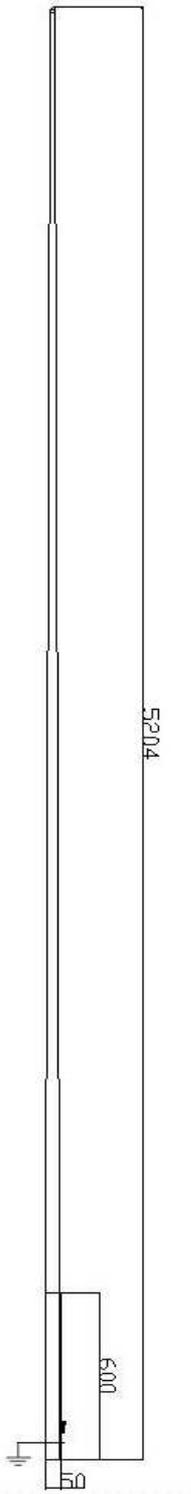


Resolution: 130
Model: MS

CAL:ON(COAX)
Serial #: 00000000

CW: ON
Smoothing: 0

VSWR of the BSN antenna



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