

19 elements Yagi antenna

430 to 440 MHz

Part Nr. 20919



Electrical data

Radiation at 432 MHz

Effective electrical length	4.02 λ
Isotropic gain	16.4 dBi
Aperture angle @ -3 dB	
- E-plane	2 x 14.8°
- H-plane	2 x 15.7°
First side lobe set	
- E-plane	- 16.0 dB @ 38°
- H-plane	- 12.9 dB @ 38°
Rear protection	- 23.6 dB
Average stray radiation	
- E-plane	- 38 dB
- H-plane	- 28 dB

Bandwidth

Gain @ -1 dB	415 to 442 MHz
Nominal impedance	50 Ω
Impedance match bandwidth @ SWR <1.3/1.....	431.0 to 439.0 MHz
Acceptable RF power (continous duty)	1000 W

Array of 2 or 4 antennas

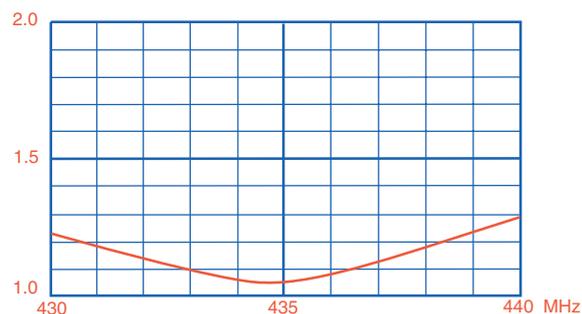
(optimized stacking distance. from center to center of elements. for minimal side lobe radiation)

- E plane - Electrical distance	1.80 λ
- Pratical distance	1.25 m
- H plane - Electrical distance	1.80 λ
- Pratical distance	1.25 m

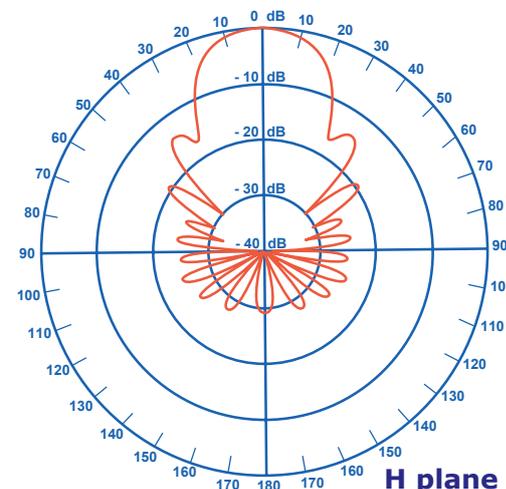
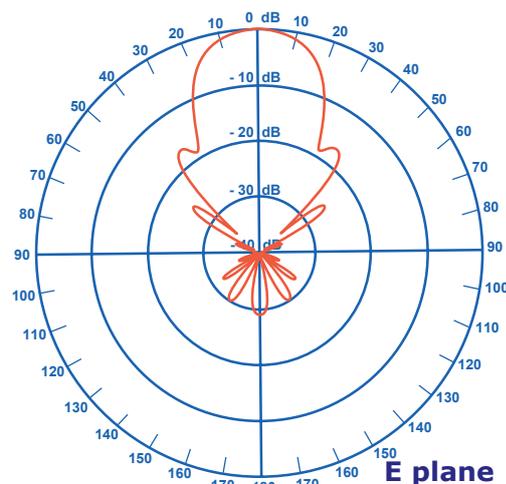
Mechanical data

Connector	N
Overall length	2.82 m
Mass	1.9 kg
Effective wind load	
- Horizontal polarization	0.06 m ²
- Vertical polarization	0.09 m ²
Approximate wind load (25 m/s - 55 mph)	
- Horizontal polarization	2.3 daN
- Vertical polarization	3.5 daN
Approximate wind load (45 m/s - 100 mph)	
- Horizontal polarization	7.5 daN
- Vertical polarization	11.3 daN

SWR curve



Radiation patterns



Autoryzowany przedstawiciel w Polsce: **abel & profit** centrum radiokomunikacji

INRADIO
ABEL & PRO-FIT Centrum Radiokomunikacji
 ul. Puskina 80 92-516 Łódź Poland
 tel. (+42) 649 28 28 fax: (+42) 677 04 71
 e-mail: biuro@inRADIO.pl
 internet: www.inRADIO.pl

