

17 elements Yagi antenna

144 to 146 MHz

Part Nr. 20817



Electrical data

Radiation at 144.5 MHz

Effective electrical length	: 3.14 λ
Isotropic gain	: 15.3 dBi
Aperture angle @ -3 dB	
- E-plane	: 2 x 16.5°
- H-plane	: 2 x 17.9°
First side lobe set	
- E-plane	: - 17.7 dB @ 43°
- H-plane	: - 13.1 dB @ 44°
Rear protection	: - 36.9 dB
Average stray radiation	
- E-plane	: - 37 dB
- H-plane	: - 27 dB

Bandwidth

Gain @ -1 dB	: 138 to 148 MHz
Nominal impedance	: 50 Ω
Impedance match bandwidth @ SWR <1.3/1.....	: 143.4 to 146.2 MHz
Acceptable RF power (continuous duty)	: 1000 W

Array of 2 or 4 antennas

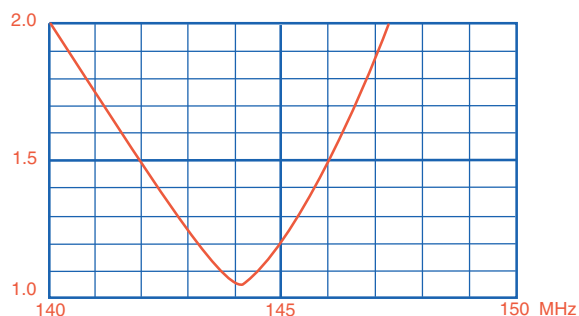
(optimized stacking distance. from center to center of elements. for minimal side lobe radiation)

- E plane - Electrical distance	: 1.85 λ
- Pratical distance	: 3.85 m
- H plane - Electrical distance	: 1.80 λ
- Pratical distance	: 3.74 m

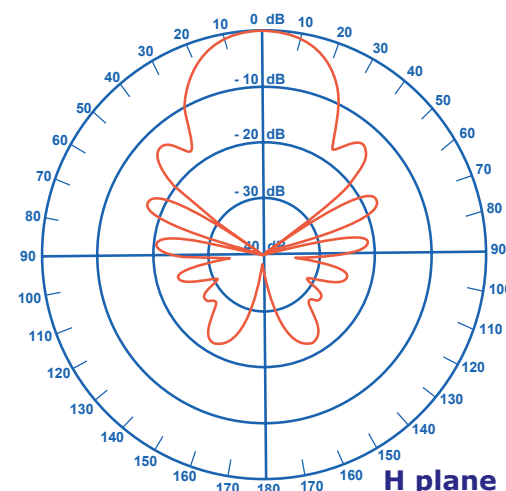
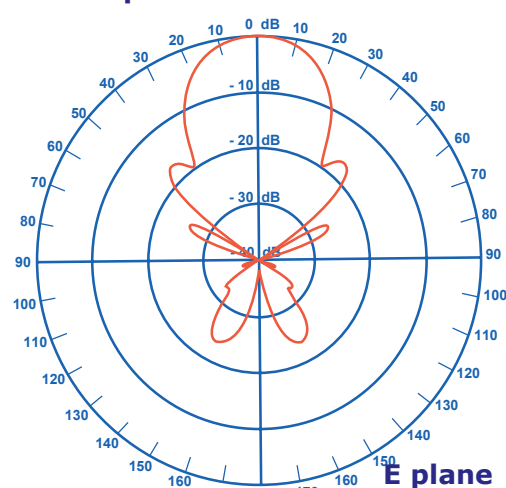
Mechanical data

Connector	: N
Overall length	: 6.57 m
Mass	: 6.5 kg
Effective wind load	
- Horizontal polarization	: 0.29 m ²
- Vertical polarization	: 0.25 m ²
Approximate wind load (25 m/s - 55 mph)	
- Horizontal polarization	: 10.9 daN
- Vertical polarization	: 9.7 daN
Approximate wind load (45 m/s - 100 mph)	
- Horizontal polarization	: 35.3 daN
- Vertical polarization	: 31.4 daN

SWR curve



Radiation patterns



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AFT