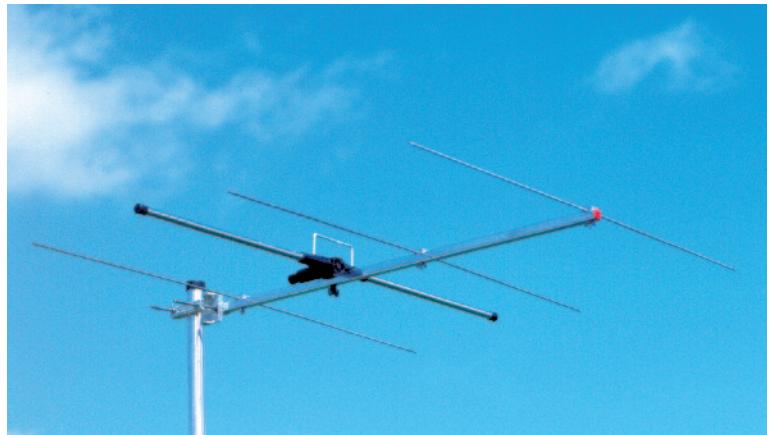


4 elements Yagi antenna

144 to 146 MHz

Part Nr. 20804



Electrical data

Radiation at 144.5 MHz

Effective electrical length	: 0.375 λ
Isotropic gain	: 9.1 dBi
Aperture angle @ -3 dB	
- E-plane	: 2 x 29.3°
- H-plane	: 2 x 43.2°
First side lobe set	
- E-plane	: None
- H-plane	: None
Rear protection	: - 16 dB
Average stray radiation	
- E-plane	: - 31 dB
- H-plane	: - 21 dB

Bandwidth

Gain @ -1 dB	: 142 to 149 MHz
Nominal impedance	: 50 Ω
Impedance match bandwidth @ SWR <1.3/1.....	: 143 to 147 MHz
Acceptable RF power (continuous duty)	: 1000 W

Array of 2 or 4 antennas

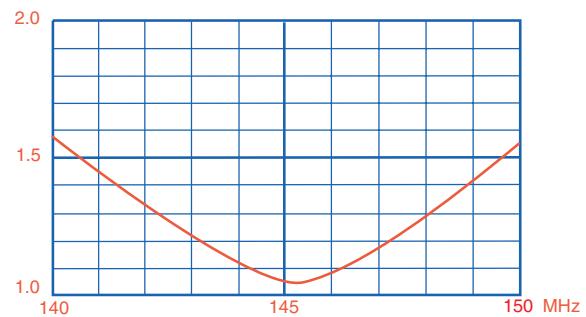
(optimized stacking distance. from center to center of elements. for minimal side lobe radiation)

- E plane - Electrical distance : 0.85 λ
- Practical distance : 1.76 m
- H plane - Electrical distance : 0.85 λ
- Practical distance : 1.76 m

Mechanical data

Connector	: N
Overall length	: 0.93 m
Mass	: 1 kg
Effective wind load	
- Horizontal polarization	: 0.02 m^2
- Vertical polarization	: 0.05 m^2
Approximate wind load (25 m/s - 55 mph)	
- Horizontal polarization	: 0.8 daN
- Vertical polarization	: 2.4 daN
Approximate wind load (45 m/s - 100 mph)	
- Horizontal polarization	: 2 daN
- Vertical polarization	: 6.5 daN

SWR curve



Radiation patterns

