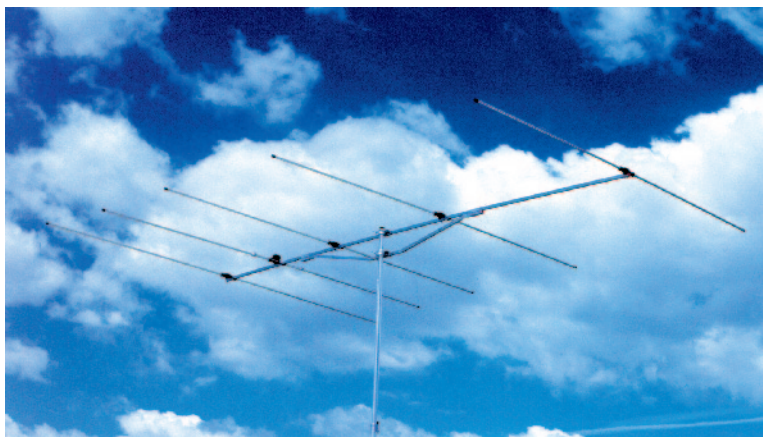


5 elements Yagi antenna

50 to 51 MHz

Part Nr. 20505



Electrical data

Radiation at 50 MHz

Effective electrical length	: 0.57 λ
Isotropic gain	: 10.1 dBi
Aperture angle @ -3 dB	
- E-plane	: 2 x 27.5°
- H-plane	: 2 x 37.5°
First side lobe set	
- E-plane	: None
- H-plane	: None
Rear protection	: - 23.8 dB
Average stray radiation	
- E-plane	: - 30 dB
- H-plane	: - 18 dB

Bandwidth

Gain @ -1 dB	: 48 to 52 MHz
Nominal impedance	: 50 Ω
Impedance match bandwidth @ SWR <1.3/1.....	: 49.9 to 50.5 MHz
Acceptable RF power (continous duty)	: 500 W

Array of 2 or 4 antennas

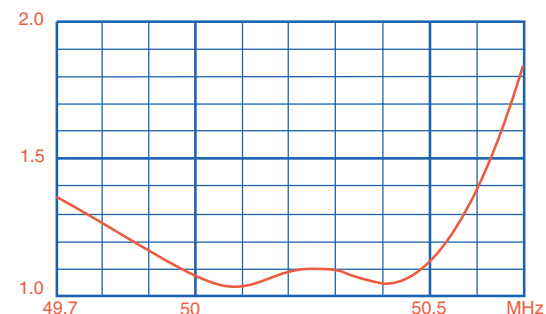
(optimized stacking distance. from center to center of elements. for minimal side lobe radiation)

- E plane - Electrical distance	: 0.93 λ
- Pratical distance	: 5.58 m
- H plane - Electrical distance	: 0.75 λ
- Pratical distance	: 4.50 m

Mechanical data

Connector	: Bracket and terminal
Overall length	: 3.45 m
Mass	: 4.9 kg
Effective wind load	
- Horizontal polarization	: 0.13 m ²
- Vertical polarization	: 0.35 m ²
Approximate wind load (25 m/s - 55 mph)	
- Horizontal polarization	: 4.9 daN
- Vertical polarization	: 13.2 daN
Approximate wind load (45 m/s - 100 mph)	
- Horizontal polarization	: 15.9 daN
- Vertical polarization	: 42.8 daN

SWR curve



Radiation patterns

