



## Tonna 220089 2m 9 element portable Yagi antenna

**£84.95**

### DESCRIPTION

Tonna 9 elements portable Yagi antenna 144 to 146 MHz Part Nr. 20089 Electrical data

Radiation at 144.5 MHz

Effective electrical length..... : 1.65 l

Isotropic gain..... : 13.1 dBi

Aperture angle @ -3 dB

- E-plane ..... : 2 x 20.2°

- H-plane ..... : 2 x 23°

First side lobe set

- E-plane ..... : - 20.5 dB @ 54°

- H-plane ..... : - 13.6 dB @ 58°

Rear protection..... : - 19.8 dB

Average stray radiation

- E-plane ..... : - 30 dB

- H-plane ..... : - 18 dB

Bandwidth

Gain @ -1 dB..... : 140 to 148 MHz

Nominal impedance..... : 50 W

Impedance match bandwidth @ SWR<1.3/1 : 143.4 to 146.2 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 .. : 1.33 l

- E-plane - Practical distance ... : 2.77 m

- H-plane - Electrical distance .. : 1.33 l

- H-plane - Practical distance ... : 2.77 m

Mechanical data

Connector..... : N  
Overall length..... : 3.47 m  
Mass..... : 2.2 kg  
Effective wind load  
- Horizontal polarisation.. : 0.7 m<sup>2</sup>  
- Vertical polarisation..... : 0.13 m<sup>2</sup>  
Approximate wind load (25m/s - 55 mph)  
- Horizontal polarization.. : 2.8 daN  
- Vertical polarization..... : 5.0 daN  
Approximate wind load (45m/s - 100 mph)  
- Horizontal polarization.. : 9.2 daN  
- Vertical polarization..... : 16.3 daN