



## Tonna 220089 2m (144 - 146MHz) 9 el Portable Yagi portable Yagi antenna

**£88.94**

### DESCRIPTION

The Tonna 220089 2m 9-element portable yagi/beam 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 deg  
 H-plane ..... : 2 x 23 deg  
 First side lobe set  
 E-plane ..... : - 20.5 dB @ 54 deg  
 H-plane ..... : - 13.6 dB @ 58 deg  
 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 <math>\le 1.3/1</math> : 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 .. : 1.33 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