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Established 1997. Open Monday - Friday 9am - 5pm and Saturday 9.30am - 4pm

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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 20.2deg

H-plane : 2 x 23deg

First side lobe set

E-plane : - 20.5 dB @ 54deg

H-plane : - 13.6 dB @ 58deg

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 λ

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

H-plane - Electrical distance .. : 1.33 λ

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 m²

Vertical polarisation..... : 0.13 m²

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