

Pro-XL 144/50L

17 elements

yagi antenna

144 to 148 MHz

Part Nr. 20317

Electrical data

Radiation at 144.3 MHz

Effective electrical length	: 5.01 λ
Isotropic gain	: 17.0 dBi
Aperture angle @ -3 dB	
- E-plane	: 2 x 14.0°
- H-plane	: 2 x 14.9°
First side lobe set	
- E-plane	: - 18 dB @ 36°
- H-plane	: - 14 dB @ 37°
Rear protection	: - 29 dB
Average stray radiation	
- E-plane	: - 35 dB
- H-plane	: - 27 dB

Bandwidth

Gain @ -1 dB	: 141 to 149 MHz
Nominal impedance	: 50 Ω
Impedance match bandwidth @ SWR <1.3/1.....	: 143 to 146 MHz
Maximum RF power (peak, SSB/CW)	: 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	: 2.15 λ
- Pratical distance	: 4.47 m
- H plane - Electrical distance	: 2.15 λ
- Pratical distance	: 4.47 m

Mechanical data

Connector	: N
Overall length	: 10.45 m
Mass	: 18.5 kg
Effective wind load	
- Horizontal polarization	: 0.73 m ²
Approximate wind load (25 m/s - 55 mph)	
- Horizontal polarization	: 27.8 daN
Approximate wind load (45 m/s - 100 mph)	
- Horizontal polarization	: 89.7 daN

Radiation patterns

