

19 elements PRO-XL antenna

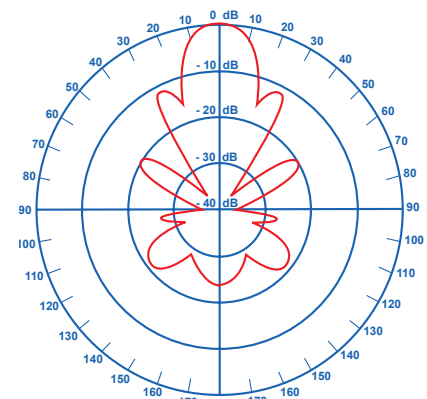
430 to 440 MHz

Part Nr. 220319



Electrical data

Effective electrical length	: 4.34 λ
Isotropic gain	: 16.2 dBi
Aperture angle @ -3 dB	
- E-plane	: 2 x 14.6°
- H-plane	: 2 x 16.9°
First side lobe set	
- E-plane	: - 12.0 dB à 29°
- H-plane	: - 15.0 dB à 29°
Rear protection	: - 25.8 dB
Average stray radiation	
- E-plane	: - 34 dB
- H-plane	: - 26 dB



220319 - 432 MHz

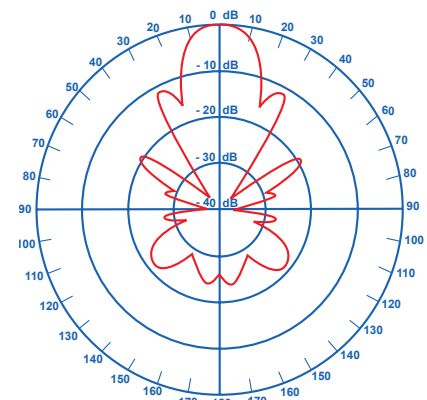
Bandwidth

Gain @ -1 dB	: 427 à 445 MHz
Nominal impedance	: 50 Ω
Impedance match bandwidth @ SWR <1.3/1.....	: 429 à 442 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)

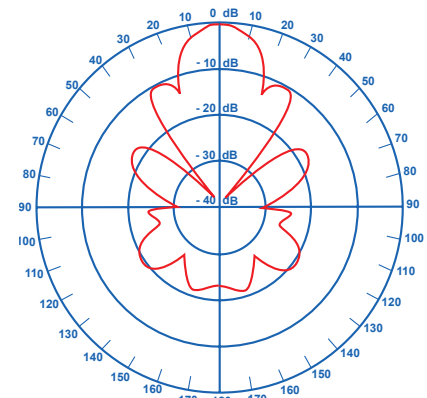
- E plane - Electrical distance	: 1.8 λ
- Pratical distance	: 1.25 m
- H plane - Electrical distance	: 1.8 λ
- Pratical distance	: 1.25 m



220319 - 435 MHz

Mechanical data

Connector	: N
Overall length	: 3.00 m
Mass	: 3.8 kg
Effective wind load	
- Horizontal polarization	: 0.13 m ²
- Vertical polarization	: 0.25 m ²
Approximate wind load (25 m/s - 55 mph)	
- Horizontal polarization	: 4.4 daN
- Vertical polarization	: 9.1 daN
Approximate wind load (45 m/s - 100 mph)	
- Horizontal polarization	: 14.5 daN
- Vertical polarization	: 29.3 daN



220319 - 438.5 MHz