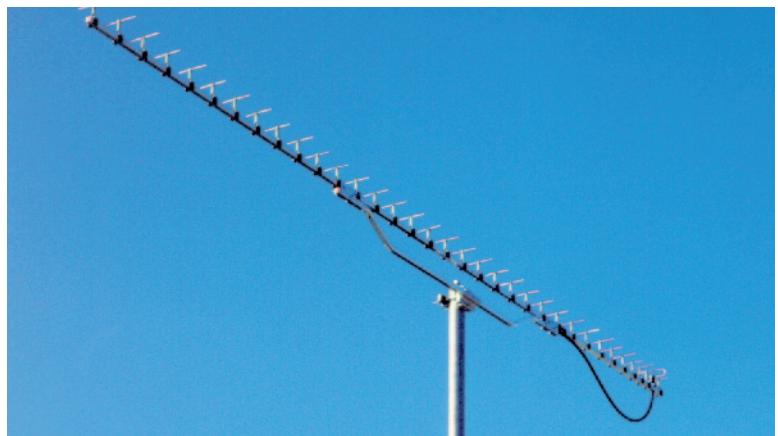


35 elements Yagi antenna

1260 to 1300 MHz

Part Nr. 20635



Electrical data

Radiation at 1296 MHz

Effective electrical length	: 13.6 λ
Isotropic gain	: 20.8 dBi
Aperture angle @ -3 dB	
- E-plane	: 2 x 9.6°
- H-plane	: 2 x 9.8°

First side lobe set

- E-plane	: - 16.5 dB @ 21°
- H-plane	: - 16.0 dB @ 24°

Rear protection

Average stray radiation	
- E-plane	: - 30 dB
- H-plane	: - 24 dB

Bandwidth

Gain @ -1 dB	: 1280 to 1314 MHz
Nominal impedance	: 50 Ω

Impedance match bandwidth @ SWR <1.3/1.....

Acceptable RF power (continuous duty)

300 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	: 3.55 λ
- Practical distance	: 0.82 m
- H plane - Electrical distance	: 3.55 λ
- Practical distance	: 0.82 m

Mechanical data

Connector

: N

Overall length

: 3.07 m

Mass

: 2.5 kg

Effective wind load

- Horizontal polarization	: 0.13 m^2
- Vertical polarization	: 0.11 m^2

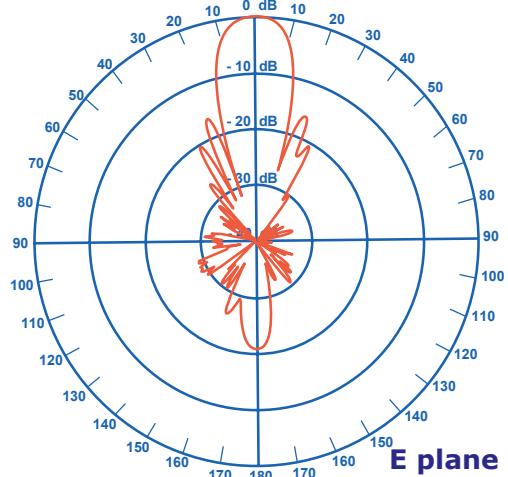
Approximate wind load (25 m/s - 55 mph)

- Horizontal polarization	: 5.0 daN
- Vertical polarization	: 4.1 daN

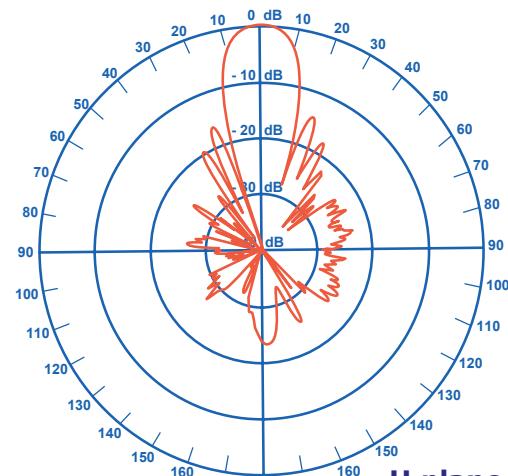
Approximate wind load (45 m/s - 100 mph)

- Horizontal polarization	: 16.1 daN
- Vertical polarization	: 13.5 daN

Radiation patterns



E plane



H plane