

35 elements Yagi antenna

1240 to 1260 MHz

Part Nr. 220636



Electrical data

Radiation at 1255 MHz

Effective electrical length	: 12.83 λ
Isotropic gain	: 20.4 dBi
Aperture angle @ -3 dB	
- E-plane	: 2 x 7.9°
- H-plane	: 2 x 8.1°
First side lobe set	
- E-plane	: - 17.5 dB @ 22°
- H-plane	: - 16.5 dB @ 22°
Rear protection	: - 22.5 dB
Average stray radiation	
- E-plane	: - 35 dB
- H-plane	: - 30 dB

Bandwidth

Gain @ -1 dB	: 1205 to 1271 MHz
Nominal impedance	: 50 Ω
Impedance match bandwidth @ SWR <1.3/1.....	: 1251 to 1267 MHz
Acceptable RF power (continuous duty)	: 300 W

Array of 2 or 4 antennas

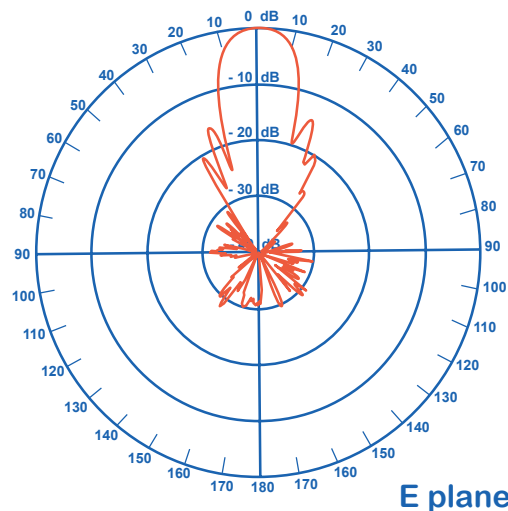
(optimized stacking distance. from center to center of elements. for minimal side lobe radiation)

- E plane - Electrical distance	: 3.40 λ
- Pratical distance	: 0.82 m
- H plane - Electrical distance	: 3.40 λ
- Pratical distance	: 0.82 m

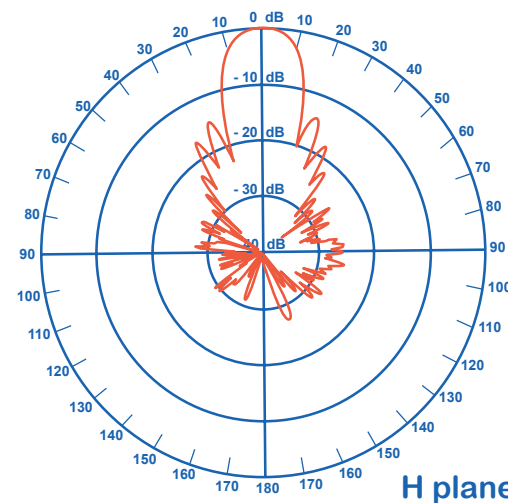
Mechanical data

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	: 4.2 daN
Approximate wind load (45 m/s - 100 mph)	
- Horizontal polarization	: 16.1 daN
- Vertical polarization	: 13.6 daN

Radiation patterns



E plane



H plane