

55 elements Yagi antenna

1240 to 1260 MHz

Part Nr. 220650



Electrical data

Radiation at 1255 MHz

Effective electrical length	: 19.3 λ
Isotropic gain	: 21.8 dBi
Aperture angle @ -3 dB	
- E-plane	: 2 x 6.6°
- H-plane	: 2 x 8.7°
First side lobe set	
- E-plane	: - 10 dB @ 17°
- H-plane	: - 9.6 dB @ 17°
Rear protection	: - 24.6 dB
Average stray radiation	
- E-plane	: - 42 dB
- H-plane	: - 32 dB

Bandwidth

Gain @ -1 dB	: 1233 to 1271 MHz
Nominal impedance	: 50 Ω
Impedance match bandwidth @ SWR <1.3/1.....	: 1250 to 1260 MHz
Acceptable RF power (continous duty)	: 300 W

Array of 2 or 4 antennas

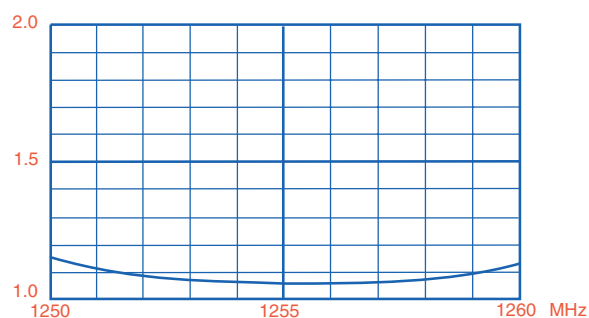
(optimized stacking distance. from center to center of elements. for minimal side lobe radiation)

- E plane - Electrical distance	: 4.40 λ
- Pratical distance	: 1.05 m
- H plane - Electrical distance	: 4.40 λ
- Pratical distance	: 1.05 m

Mechanical data

Connector	: N
Overall length	: 4.64 m
Mass	: 4.0 kg
Effective wind load	
- Horizontal polarization	: 0.20 m ²
- Vertical polarization	: 0.12 m ²
Approximate wind load (25 m/s - 55 mph)	
- Horizontal polarization	: 7.5 daN
- Vertical polarization	: 4.8 daN
Approximate wind load (45 m/s - 100 mph)	
- Horizontal polarization	: 24.6 daN
- Vertical polarization	: 15.2 daN

SWR curve



Radiation patterns

