

25 elements Yagi antenna

2300 to 2330 MHz

Part Nr. 20725



Electrical data

Radiation at 2320 MHz

Effective electrical length: 9.67 λ

Isotropic gain: 18.2 dBi

Aperture angle @ -3 dB

- E-plane: 2 x 7.4°

- H-plane: 2 x 7.6°

First side lobe set

- E-plane: - 11 dB @ 22°

- H-plane: - 9.6 dB @ 22°

Rear protection: - 27 dB

Average stray radiation

- E-plane: - 23 dB

- H-plane: - 22 dB

Bandwidth

Gain @ -1 dB: 2200 to 2330 MHz

Nominal impedance: 50 Ω

Impedance match bandwidth @ SWR <1.3/1.....: 2280 to 2330 MHz

Acceptable RF power (continuous duty): 200 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: 3.33 λ

- Pratical distance: 0.43 m

- H plane - Electrical distance: 3.33 λ

- Pratical distance: 0.43 m

Mechanical data

Connector: N

Overall length: 1.45 m

Mass: 0.95 kg

Effective wind load

- Horizontal polarization: 0.056 m²

- Vertical polarization: 0.032 m²

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

- Horizontal polarization: 2.2 daN

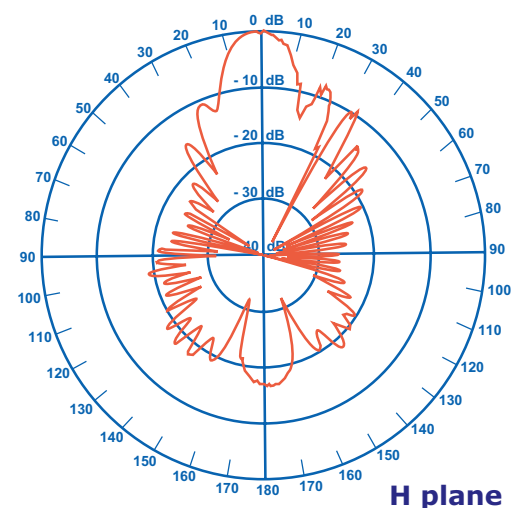
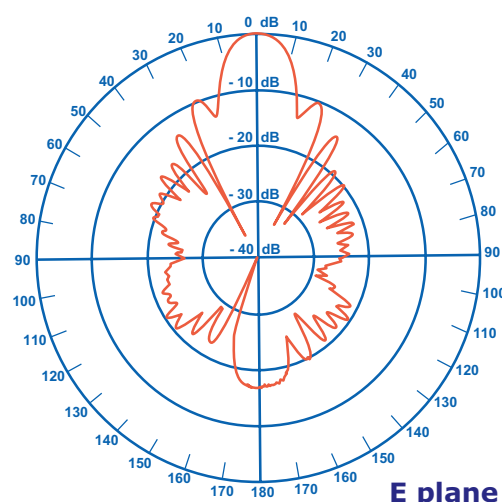
- Vertical polarization: 1.2 daN

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

- Horizontal polarization: 6.9 daN

- Vertical polarization: 4.0 daN

Radiation patterns



25 elements Yagi antenna

2300 to 2420 MHz

Part Nr. 20745



Electrical data

Radiation at 2400 MHz

Effective electrical length	: 10.0 λ
Isotropic gain	: 18.1 dBi
Aperture angle @ -3 dB	
- E-plane	: 2 x 7.2°
- H-plane	: 2 x 7.3°
First side lobe set	
- E-plane	: - 11 dB @ 22°
- H-plane	: - 9.5 dB @ 22°
Rear protection	: - 25 dB
Average stray radiation	
- E-plane	: - 23 dB
- H-plane	: - 22 dB

Bandwidth

Gain @ -1 dB	: 2300 to 2450 MHz
Nominal impedance	: 50 Ω
Impedance match bandwidth @ SWR <1.3/1.....	: 2300 to 2420 MHz
Acceptable RF power (continous duty)	: 200 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	: 3.33 λ
- Pratical distance	: 0.42 m
- H plane - Electrical distance	: 3.33 λ
- Pratical distance	: 0.42 m

Mechanical data

Connector	: N
Overall length	: 1.45 m
Mass	: 0.95 kg
Effective wind load	
- Horizontal polarization	: 0.056 m ²
- Vertical polarization	: 0.032 m ²
Approximate wind load (25 m/s - 55 mph)	
- Horizontal polarization	: 2.2 daN
- Vertical polarization	: 1.2 daN
Approximate wind load (45 m/s - 100 mph)	
- Horizontal polarization	: 6.9 daN
- Vertical polarization	: 4.0 daN

Radiation patterns

