

«Flat line» Patch antenna

1240 to 1300 MHz

Part Nr. 20614

Electrical data

Radiation at 1296 MHz

Effective electrical length	: 0.18 λ
Isotropic gain	: 13.8 dBi
Aperture angle @ -3 dB	
- E-plane	: 2 x 19.1°
- H-plane	: 2 x 21.1°
First side lobe set	
- E-plane	: - 15 dB @ 65°
- H-plane	: - 25 dB @ 80°
Rear protection	: - 30 dB
Average stray radiation	
- E-plane	: - 20 dB
- H-plane	: - 25 dB

Bandwidth

Gain @ -1 dB	: 1240 to 1300 MHz
Nominal impedance	: 50 Ω
Impedance match bandwidth @ SWR <1.3/1.....	: 1240 to 1300 MHz
Acceptable RF power (CW/FM/PSK)	: 150 W

Array of 2 or 4 antennas

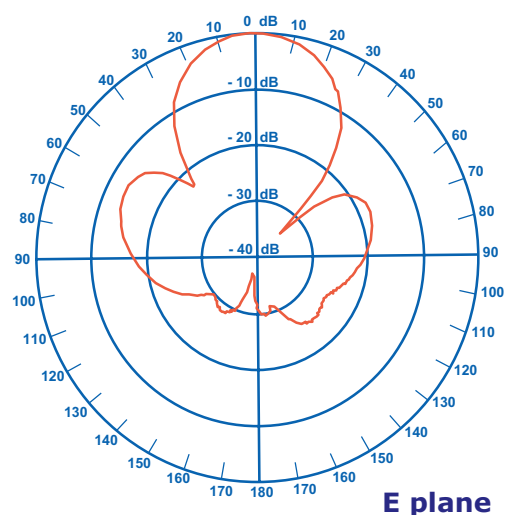
(optimized stacking distance. from center to center of elements. for minimal side lobe radiation)

- E plane - Electrical distance	: 1.53 λ
- Pratical distance	: 0.35 m
- H plane - Electrical distance	: 1.73 λ
- Pratical distance	: 0.40 m

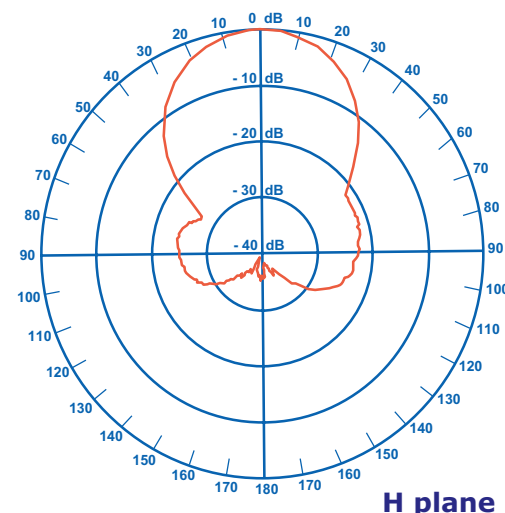
Mechanical data

Connector	: N
Overall length	: 300 x 390 x 50 mm
Mass	: 0.5 kg
Effective wind load	: 0.11 m ²
Approximate wind load (25 m/s - 55 mph)	: 4.1 daN
Approximate wind load (45 m/s - 100 mph)	: 13.3 daN

Radiation patterns



E plane



H plane



«Flat line» Patch antenna

430 to 440 MHz

Part Nr. 20901

Electrical data

Radiation at 435 MHz

Effective electrical length	: 0.06 λ
Isotropic gain	: 8.0 dBi
Aperture angle @ -3 dB	
- E-plane	: 2 x 38.8°
- H-plane	: 2 x 41.0°
First side lobe set	
- E-plane	: -
- H-plane	: -
Rear protection	: - 15 dB
Average stray radiation	
- E-plane	: - 20 dB
- H-plane	: - 20 dB

Bandwidth

Gain @ -1 dB	: 425 to 445 MHz
Nominal impedance	: 50 Ω
Impedance match bandwidth @ SWR <1.3/1.....	: 430 to 440 MHz
Acceptable RF power (CW/FM/PSK)	: 150 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	: 0.57 λ
- Pratical distance	: 0.38 m
- H plane - Electrical distance	: 0.53 λ
- Pratical distance	: 0.37 m

Mechanical data

Connector	: N
Overall length	: 300 x 390 x 50 mm
Mass	: 0.5 kg
Effective wind load	: 0.11 m ²
Approximate wind load (25 m/s - 55 mph)	: 4.1 daN
Approximate wind load (45 m/s - 100 mph)	: 13.3 daN

Radiation patterns

