



Directional single antenna

Features

- Directional
- 10.5 dBi gain
- 1880-1920 MHz
- Mountable to wall or pole

General

The 'directional single antenna' is a flat directional antenna housed in a plastic shroud and fitted with 1 meter of coaxial cable and a MCX male connector. The antenna includes a rotating bracket for wall installation. It can be adjusted in both a vertical and a horizontal plane. The mounting bracket allows installation by strapping around a pole with a diameter of 30 to 60 mm. A steel strap (10-15 mm) is not included.

Specifications

Specifications subject to change without prior notice.

General

Manufacturer: MAT Equipment
Product code manufacturer: MA420X44

Physical

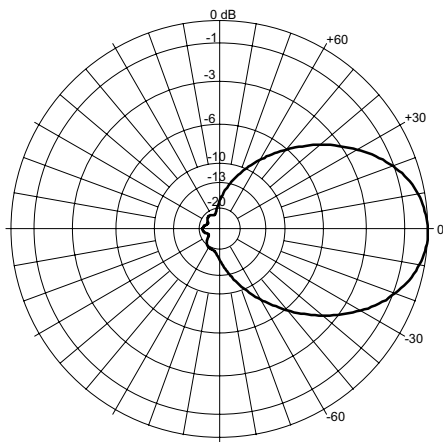
Size (h × w × th): 270(w) × 140(h) × 35 mm (panel thickness)
Mounting stand-off: 71 mm (wall to back of antenna)
Weight: ≈ 0.82 kg
Material/colour:
shroud: UV-resistant plastic, grey RAL 7035
bracket: aluminium and zamak

Environmental

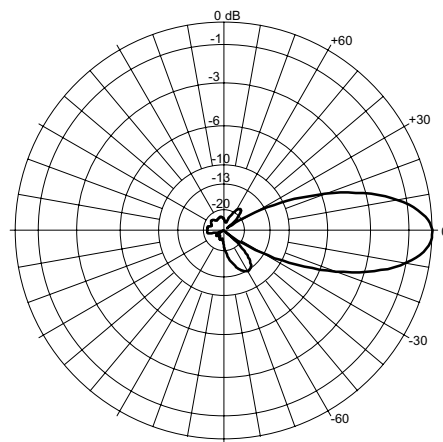
Operating temperature: -33 to +55 °C

Functional Specs

Frequency: range 1880 to 1920 MHz
Nominal impedance: 50 ohms
VSWR: ≤ 1.6
Polarization: linear, vertical
Gain (at connector level): 9.5 dBi ± 0.3 dBi
Radiation in horizontal plane: beam width (H-plane) at -3 dB: ≈ 69°
Radiation in vertical plane: beam width (E-plane) at -3 dB: ≈ 31°
Maximum power: 10 watts
Connector: MCX male connector at the end of a 1 m RG316 coaxial cable (minimum bending radius: 20 mm)
Orientation capability: ± 45° in azimuth (horizontal plane) ± 15° in elevation (vertical plane)



Typical radiation in horizontal plane



Typical radiation in vertical plane

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