

R 806-2500/10

Multi Band Yagi Antenna for the 806 - 2500 MHz Bands

DESCRIPTION

- Multi band shrouded Directional Antenna.
- Covers e.g. the 900 MHz EGSM band (880 – 960 MHz) as well as the 1800 MHz DCS-1800/PCN band (1710 – 1890 MHz) and UMTS band (1900 - 2200 MHz).
- 10 dBd gain from 806 - 2500 MHz.
- A sturdy glass reinforced plastic shroud ensures effective protection against the weather.
- All metal parts are DC grounded for noise reduction and lightning protection.
- Materials carefully chosen for minimum electrolytic corrosion and intermodulation.
- Supplied with circular cast alloy clamp for mounting on 25–50 mm mast tubes.
- Reliable and robust design for optimum performance and long lifetime.
- Fire Retardant properties.



ORDERING DESIGNATIONS

TYPE	PRODUCT NO.
R 806-2500/10	12000067

The antenna is supplied in the standard version with bracket suiting 25 - 50 mm dia. mast tube. Available for 50 - 75 mm dia. mast tube as an option.

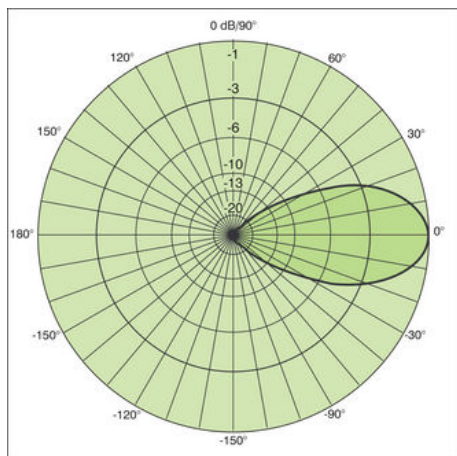
GENERAL SPECIFICATIONS

MODEL	R 806-2500/10
ANTENNA TYPE	Shrouded Directional Antenna
FREQUENCY	806 - 2500 MHz
GAIN	12 dBi 10 dBd
H-PLANE BEAM WIDTH (-3 DB POINTS)	51°
E-PLANE BEAM WIDTH (-3 DB POINTS)	41°
MAXIMUM POWER	150 W

SPECIFICATIONS

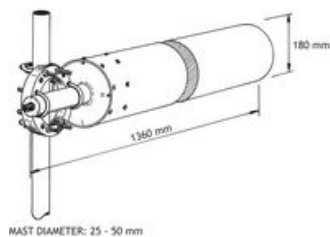
ELECTRICAL	
MODEL	R 806-2500/10
ANTENNA TYPE	Shrouded Directional Antenna
FREQUENCY	806 – 2500 MHz
IMPEDANCE	50 Ω
POLARISATION	Linear, vertical or horizontal
GAIN	12 dBi 10 dBd
H-PLANE BEAM WIDTH (-3 DB POINTS)	51°
E-PLANE BEAM WIDTH (-3 DB POINTS)	41°
FRONT TO BACK RATIO	> 26 dB
BAND WIDTH	≥ 1700 MHz @ SWR ≤ 1.5
SWR	≤ 1.5
MAX. POWER	150 W
ANTISTATIC PROTECTION	All metal parts DC-grounded
MECHANICAL	
TEMP. RANGE	-25°C → +60°C
CONNECTOR	"N" type female
WIND LOAD	260 N (max. @ at 160 km/h)
COLOUR	Grey
SHROUD	180 mm glass fibre tube
DIMENSIONS	Length 1360 mm, diameter 180 mm
WEIGHT	7 kg excl. mounting hardware
MOUNTING	Supplied with circular cast alloy clamp for mounting on 25–50 mm dia. mast tubes

TYPICAL RADIATION PATTERN (H-PLANE)



Outer ring: 10 dBd

MOUNTING OUTLINE



MAST DIAMETER: 25 - 50 mm

POLARISATION:
MOUNTING NOTES:

1. "L" and "H" indicate polarisation of antenna. Polarisation is vertical when "L" is facing downwards. By aligning the middle drain holes to face downwards the antenna is at 45° polarisation.
2. When mounting inside a tunnel, the "L" must be normal to the wall/roof.
3. Antenna must be mounted at least 50 mm from tunnel wall/roof.
4. One drain hole at the rear of the antenna and one at the front must be pointing downwards. **These drain holes must have the sealing grommets removed.**

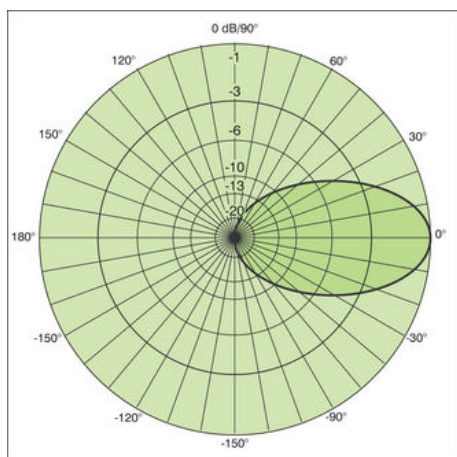
REAR VIEW:



PROCOM A/S reserve the right to amend specifications without prior notice.

24/06/2009

TYPICAL RADIATION PATTERN (E-PLANE)



Outer ring: 10 dBd