



Model

# GRN460-TPM

Highly Flexible "Quick Fit"  
Ground Independent Mobile Antenna  
34 cm

## UHF 450 – 470MHz 4 dBi Gain

- Red identification cap on top of antenna
- Highly flexible PVC top, virtually unbreakable and perfect for rugged off-road driving, forklifts and tractors.
- "Quick Fit" to UHF female antenna mounting base. (available separately)

## INSTALLATION GUIDE

[www.zcg.com.au](http://www.zcg.com.au)

### ANTENNA DESCRIPTION

Just 34 cm tall, the GRN460-TPM half wave UHF antenna top with UHF male connector inside the base features a highly flexible PVC top which is virtually unbreakable.

The copper, brass, delrin and PVC construction is purpose built to survive harsh Australian conditions long term.

Perfect for rugged off-road driving, forklifts and tractors, this ground independent mobile antenna can be mounted in various positions and offers effective performance with 4 dBi gain.

Clients who purchase this GRN "Quick Fit" antenna top alone can select from various UHF female mounting base options according to their requirements.

The right-angle UHF female mounting base fits into any bracket with 17 mm minimum diameter hole.

The unique design makes installation so simple with the additional benefit of being able to easily remove the antenna top when not required, or in a situation where you are concerned about damage, vandalism or theft.

A detailed specification sheet is available to download from [www.zcg.com.au](http://www.zcg.com.au)

### TUNING

The antenna top has been tuned in the factory to cover the full UHF frequency range 450 to 470 MHz. VSWR has been optimised to less than 1.5:1 across the frequency range stated.

This tuning cannot be altered.

### SELECTING THE MOUNTING POSITION

The GRN antenna top can be mounted on a vehicle or in a fixed location using a UHF female base and any bracket with minimum 16mm diameter hole.

No metal ground plane is necessary for the antenna to operate effectively.

To achieve best performance from your antenna, these are the important principles you should consider when selecting the mounting point:

1. **Mount the antenna in as high a place as possible.**
2. **Mount the antenna as far away from other antennas and metallic objects as possible to avoid interference and distortion of the 360° omnidirectional pattern. At least 350 mm side clearance is desirable, preferably more.**
3. **Mount the antenna vertical, not at an angle.**

### UHF FEMALE MOUNTING BASE OPTIONS AVAILABLE - ORDER SEPARATELY

#### SKU: UF-7994

The right-angle UHF female base alone. Mounts into any bracket with 16mm diameter hole such as SKU: BBM-SS - *order separate*.



#### SKU: RA-4.7

Right-angle UHF female base fitted with 4.7 metres of RG58 cable and UHF male PL259 connector supplied, not fitted.



#### SKU: ZMB-90

Magnetic base with UHF female connector, black powdercoat finished body, 9cm diameter, heavy duty magnet, rubber pad base, 4.5 metres RG58 cable, UHF male PL259 connector terminated.



#### SKU: MGB-UHF

Magnetic base with UHF female connector, steel with polished black powder coated finish, 10.5 cm diameter, heavy duty magnet, PVC matted pad on bottom, 4.7 metres RG58 low loss stranded cable side exits, UHF male PL259 connector supplied, not fitted.

