

## M21T-WB-8

### VHF high band whip and PCB OB-2 base Full VHF / Land Mobile Radio 148-175MHz

The M21T-WB-8 is the ideal VHF/ LMR communications antenna for all emergency services vehicles, commercial or recreational vehicles as well as military applications. ZCG has matched its tried and tested, reliable construction with the broad bandwidth capability of the M21T-WB to cover VHF 148-175MHz.



**Please note:** the M21T-WB-8 is ground dependent, requiring a metallic ground plane such as a vehicle roof or a structure with a metallic roof.

Alternate mounting hardware, adaptors, connectors and other installation accessories are all available separately.

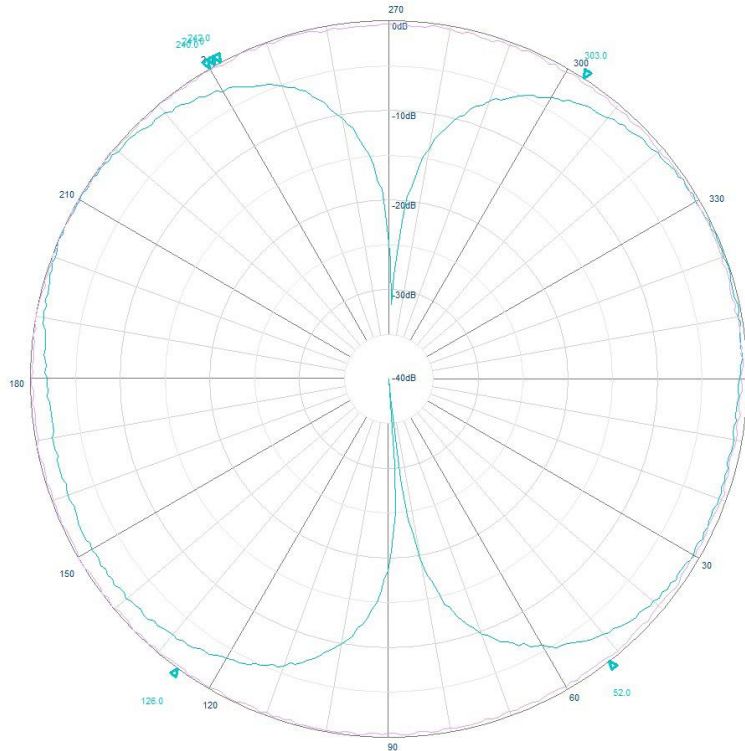
Construction	17-7PH stainless steel tapered whip, OB-2 standard base and cable assembly
Frequency range	VHF high band 148-175MHz
Tuning	Factory - no additional tuning required
VSWR	<1.5:1
Gain - nominal	2.1dBi
Maximum power	50 Watts
Impedance	50 Ohms
Polarisation	Vertical
H Plane	360° omni-directional, ± 0.5dBd
DC grounding	Yes
Ground independent	No - <u>requires metallic ground plane</u>
Height	450mm - including base
Weight	65grams
Connector	No termination - order separately to suit your requirements
Coaxial cable	8.0 metres RG58 MIL-SPEC stranded - side exits from the PCB and OB-2 in the base - alternate cable lengths can be specified when ordering.
Mounting base	OB-2 Australian standard base with 5/16"-26TPI male thread
Mounting position recommended	Deconstruct OB-2 base and mount as high on your structure or vehicle as possible on a metallic ground plane, to ensure a omni-directional pattern.
Installation tools required	11mm spanner for OB base securing 15mm spanner for whip to OB base securing



Detachable whip. OB base must be installed prior to fixing whip onto base. Must have metallic ground plane to work at stated levels.

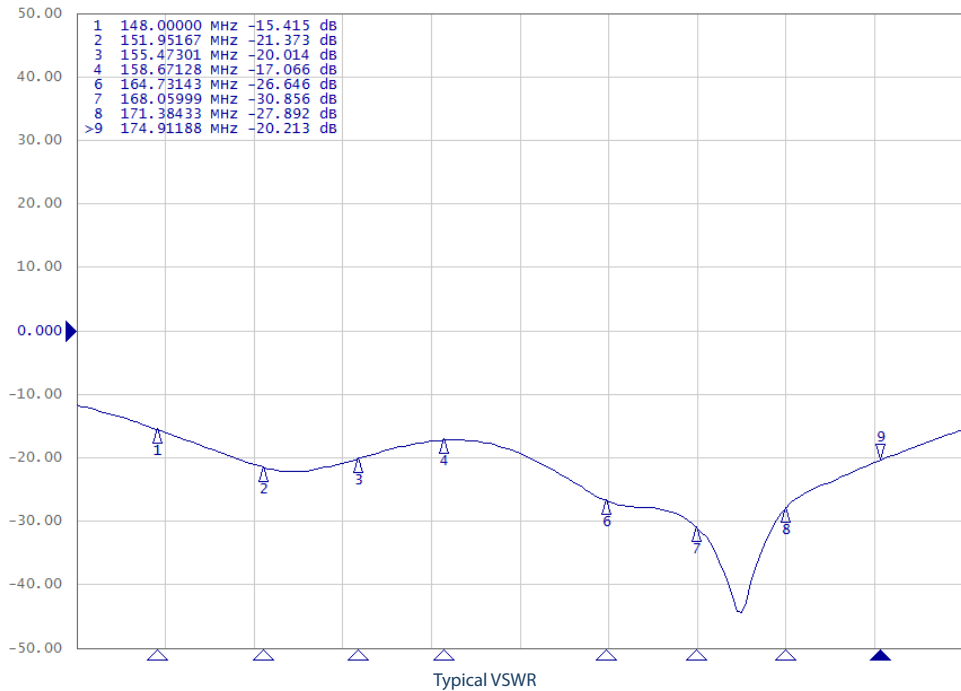
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Example radiation pattern at 148MHz on metallic 1/4 wave ground plane

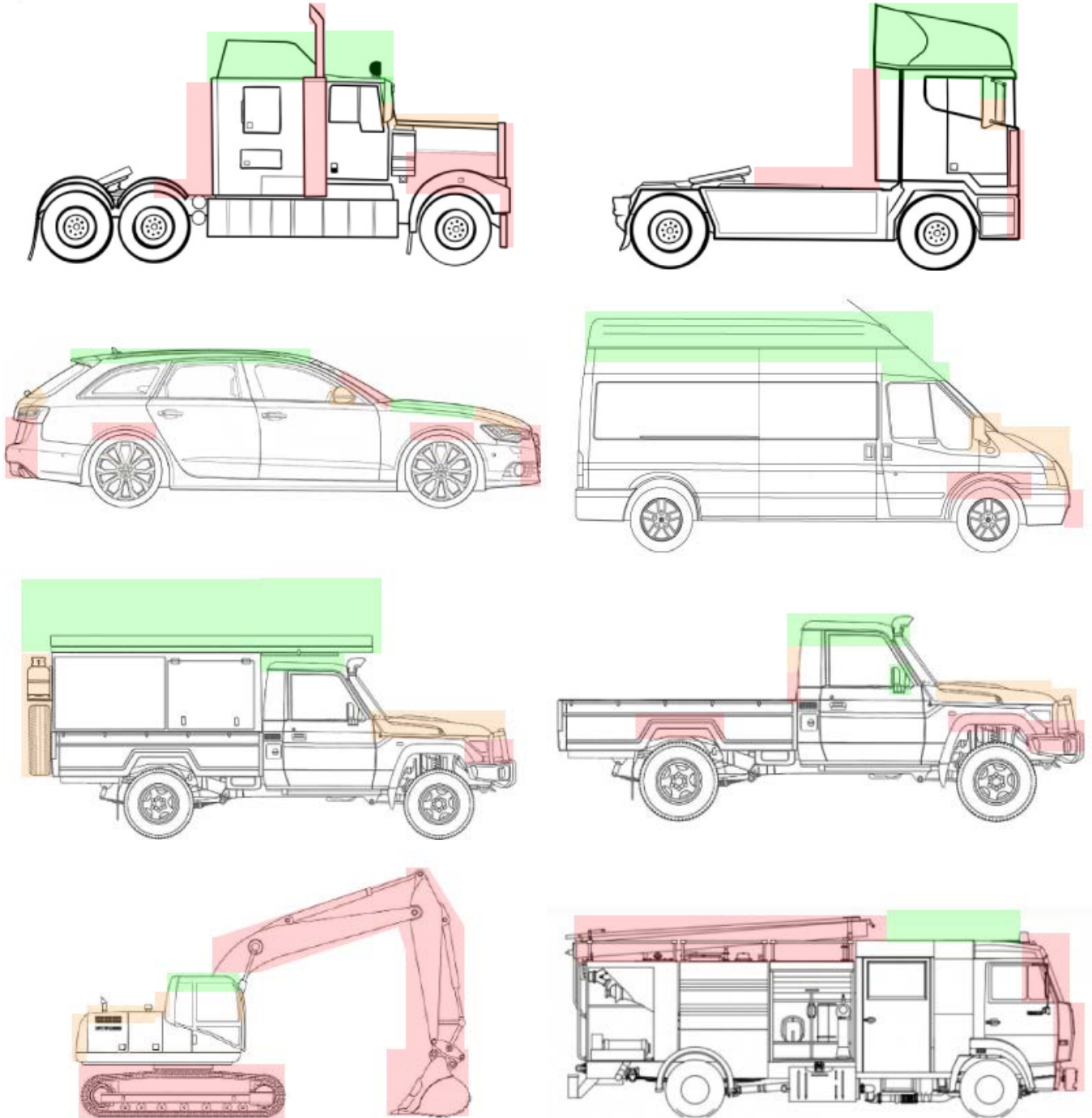
► **[F1]** S11 Log Mag 10.00 dB/ Ref 0.000 dB [F1]



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Vehicle Mounting locations



- Best/Recommended location for mounting
- Suitable mounting locations
- Not suitable mounting locations