



GID-1417

Ground independent broadband loaded base whip VHF high band 148-174 MHz

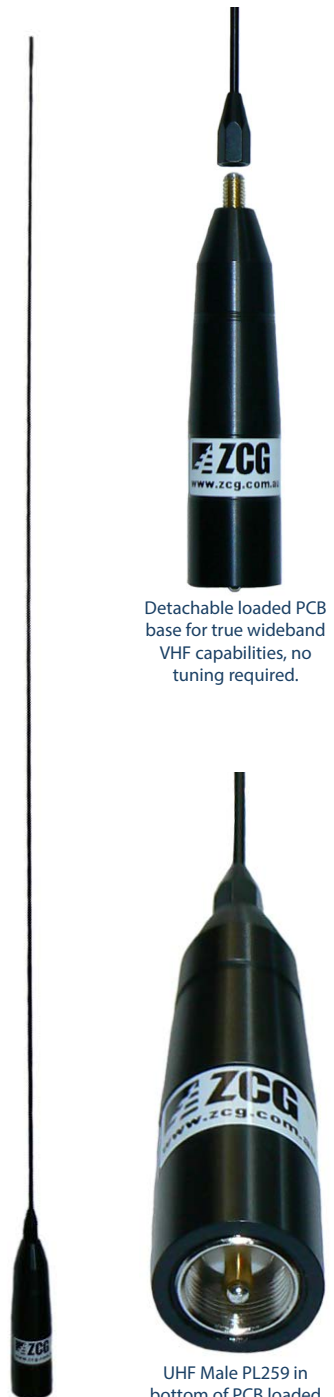


The GID-1417 detachable ground independent wideband VHF communications whip features a UHF male PL259 connector in the loaded PCB base, which fits onto any UHF female terminated base. The detachable design makes installation/removal quick and easy in situations of damage, vandalism or possible theft.

Please note: This antenna is the whip only and requires a mounting base - see recommended mounting hardware.

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

Construction	Black powdercoated whip, delrin loaded base and embedded UHF PL259 termination
Frequency range	VHF high band 148-174MHz
Bandwidth	Full stated frequency range
VSWR	<2:1
Tuning	Factory - no external tuning required
Gain	3dBi
Maximum power	25 Watts
Ground independent	Yes
Impedance	50 Ohms
Polarisation	Vertical
H Plane	360° omnidirectional ± 0.5 dBd
Connector	UHF male PL259 in base of mount ferrule
Height	850mm
Weight	120grams
Mounting hardware order separate	Magnetic base: MGB-UHF or ZMB-90 Cable assembly: RA-4.7 with appropriate bracket such as BBM-SS
Mounting position recommended	As high on your vehicle/structure as possible using an appropriate magnetic base or cable base and bracket
Installation tools required	For permanent fixing, utilise a small amount of threadlocker applied onto thread, ensure no threadlocker on centre conductor

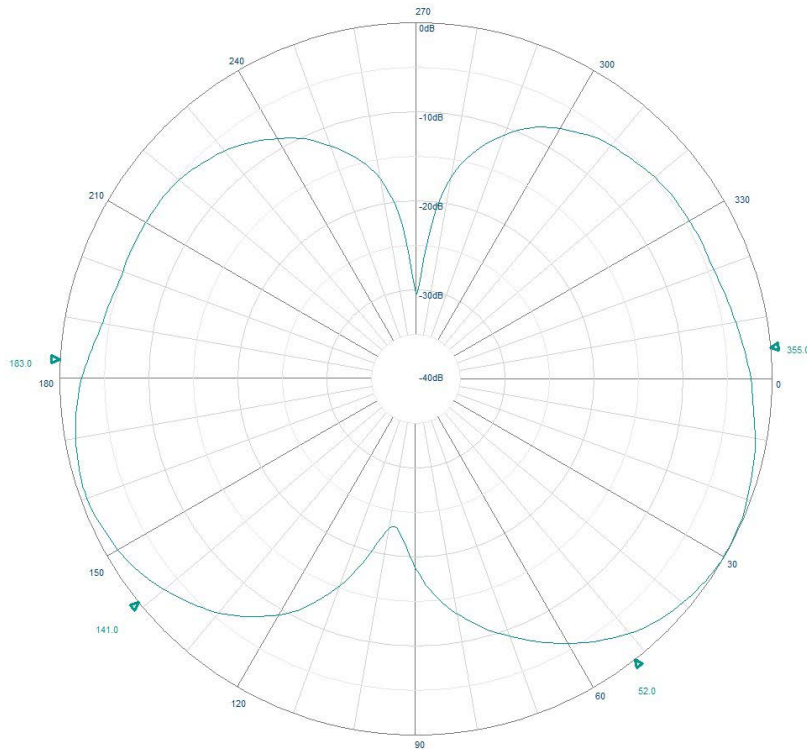


Detachable loaded PCB base for true wideband VHF capabilities, no tuning required.

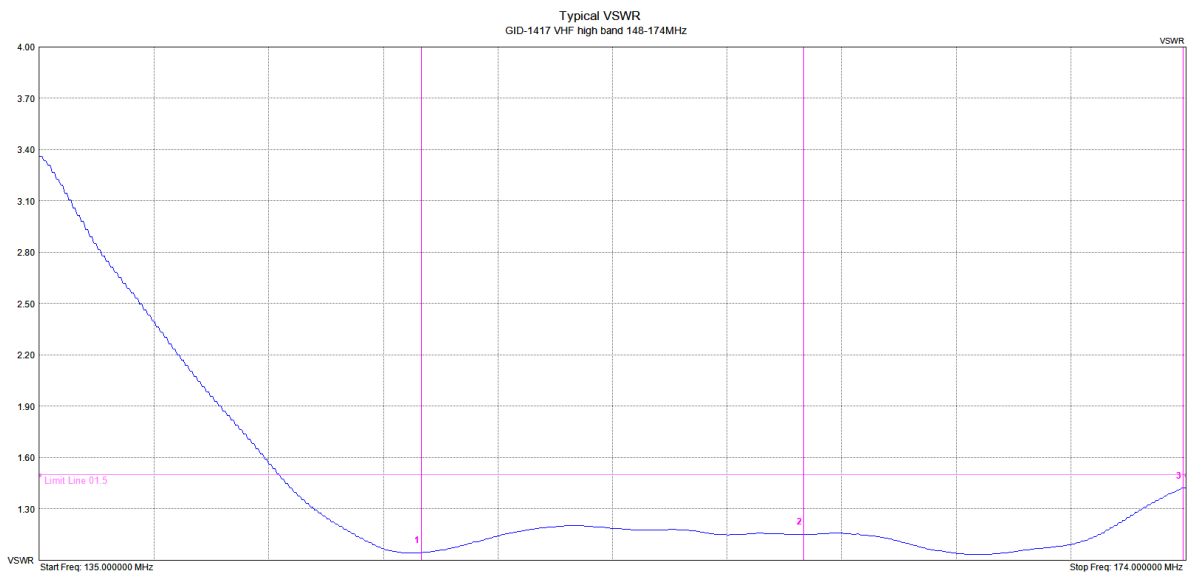
UHF Male PL259 in bottom of PCB loaded base

GID-1417

Ground independent broadband loaded base whip
VHF high band 148-174 MHz



Example radiation pattern



Mtr	Ref	Delta	Ref Freq	Ref Amp	Delta Freq	Delta Amp
1	<input type="checkbox"/>	<input type="checkbox"/>	148.000 MHz	1.04VSWR	--	--
2	<input type="checkbox"/>	<input type="checkbox"/>	161.000 MHz	1.15VSWR	--	--
3	<input type="checkbox"/>	<input type="checkbox"/>	173.929 MHz	1.42VSWR	--	--
4	<input type="checkbox"/>	<input type="checkbox"/>	--	--	--	--

Typical Return Loss

GID-1417

Ground independent broadband loaded base whip VHF high band 148-174 MHz

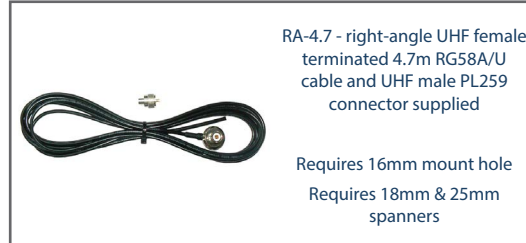


Recommended installation accessories - GRN-TPM series



P/N 7944 - right-angle UHF female connector, no cable

Requires 16mm mount hole
Requires 18mm & 25mm spanners



RA-4.7 - right-angle UHF female terminated 4.7m RG58A/U cable and UHF male PL259 connector supplied

Requires 16mm mount hole
Requires 18mm & 25mm spanners



MGB-UHF - Black powdercoated magnetic mount base, 4.7 metres RG58A/U coaxial cable, UHF male PL259 supplied

105mm diameter



ZMB-90 - Black powdercoated magnetic mount base, 5 metres RG58A/U coaxial cable, UHF male PL259 fitted

90mm diameter

Additional installation accessories



BBM-SS series - wrap around mount, 50-70mm diameter tube capability

16mm mount hole

Requires 10mm spanner



GM1 - 304 stainless steel 'L' mount bracket

16mm mount hole



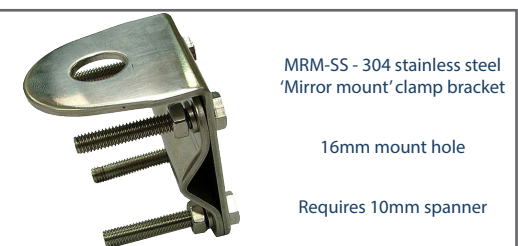
GM2 - 304 stainless steel 'Z' mount bracket

16mm mount hole



GM6 - 304 stainless steel 'L' mount bracket with mount slot

16mm mount slot



MRM-SS - 304 stainless steel 'Mirror mount' clamp bracket

16mm mount hole

Requires 10mm spanner



A-6211 - 304 stainless steel 'L' offset mount bracket, 200mm offset

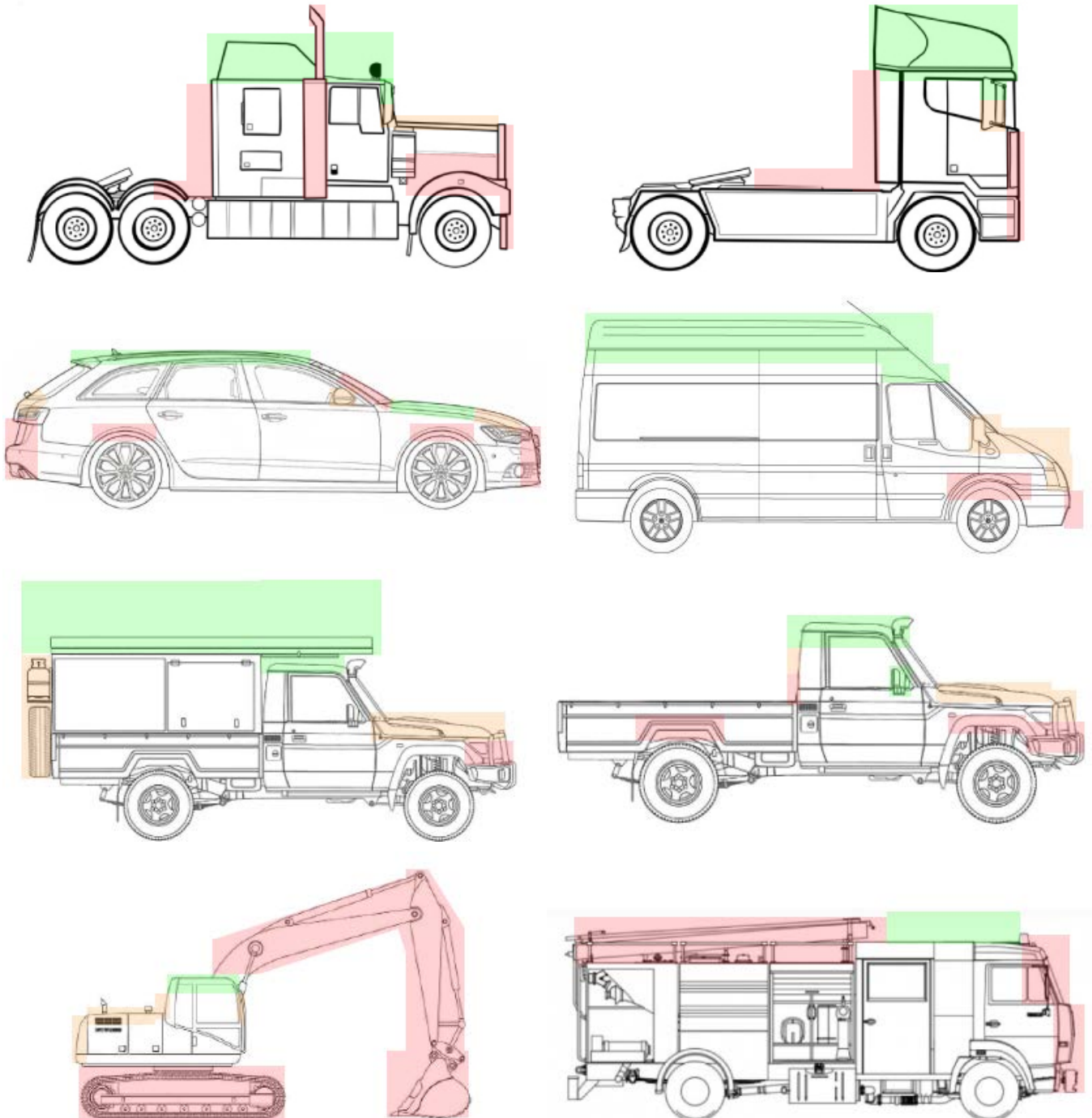
16mm mount hole

GID-1417

Ground independent broadband loaded base whip
VHF high band 148-174 MHz



Vehicle Mounting locations



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