

VHF302000TB

VHF/UHF/L-Band vehicle whip, tri-band, monopole/dipole/dipole,
1.56 m, 30–88 MHz, 225–450 MHz 1200–2000 MHz

Tactical Antennas: Vehicle Mount



Features

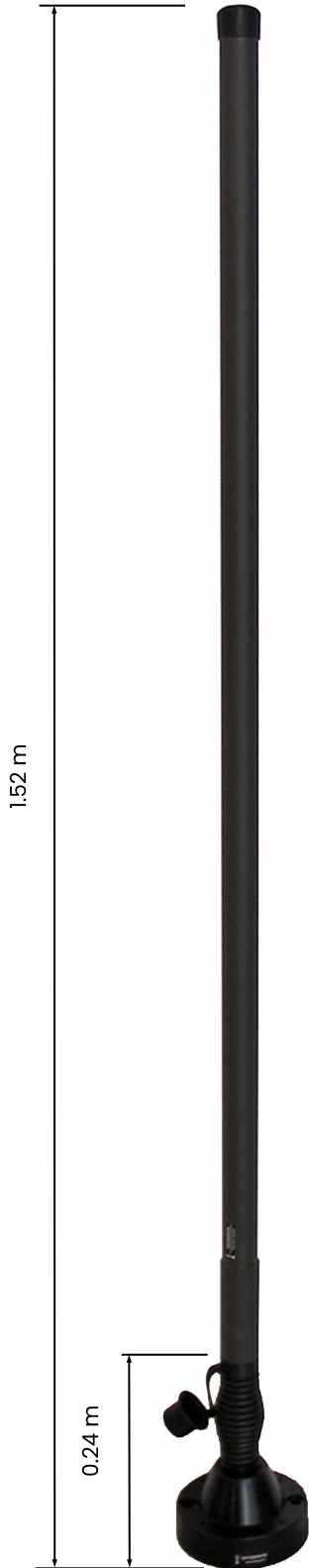
- Unique tri-band design (patented)
- 30–88 MHz, 225–450 MHz and 1200–2110 MHz
- 3 connectors, VHF, UHF and L-band
- High isolation between ports
- Designed for operation on all kinds of vehicles including armoured vehicles
- Suitable for operation on shelters and to be mounted on masts or in other permanent installations
- Rugged high quality antenna with a durable construction
- NATO flange base with spring
- UHF dipole and L-band antenna elements are located high up in the whip for maximum range. VHF requires a ground plane
- Optional single connector version with external triplexer
- Optional L1/L2 GPS installed in antenna base

Electrical Specifications

Frequency Range	VHF: 30–88 MHz UHF: 225–450 MHz L-band: 1200–2110 MHz GPS (option): L1 - 1575.42 ± 10 MHz L2 - 1227.60 ± 10 MHz
VSWR	VHF: < 3.5:1 UHF: < 3.0:1 L-band: < 3.0:1
Port-to-Port Isolation	> 40 dB within bands (three connector base)
Nominal Impedance	50 Ω
Power Rating	VHF: 75 W, UHF: 75 W, L-Band: 50 W
Gain	See graphs overleaf
Radiation Pattern	Omnidirectional within ± 2 dB
Polarisation	Vertical
Connectors	VHF: BNC female, UHF: BNC female, L-Band: N female Single connector (option): N female GPS (option): SMA female

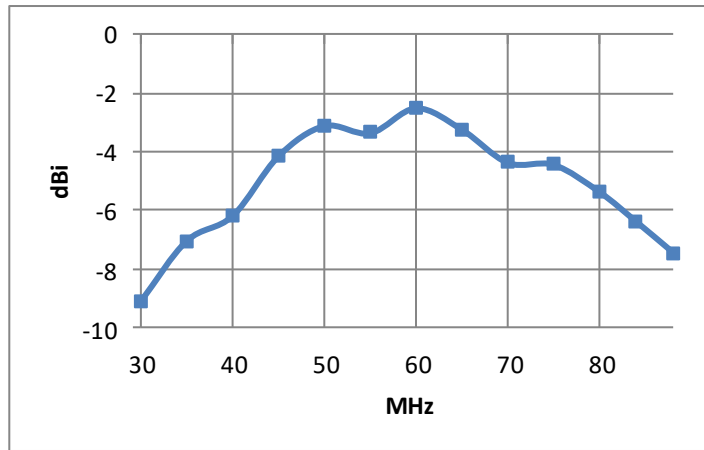
Mechanical Specifications

Design	VHF: End feed monopole. UHF: Dipole. L-Band dipole elements. Radiating elements completely enclosed in epoxy/fibreglass laminate. Metal parts are brass, aluminium and stainless steel.
Length*	1.52 m
Weight*	Whip: 1.4 kg, Base: 2.6 kg
Wind Rating	55m/s
Finish	Polyurethane lacquer
Temperature Range	- 55°C to + 71°C

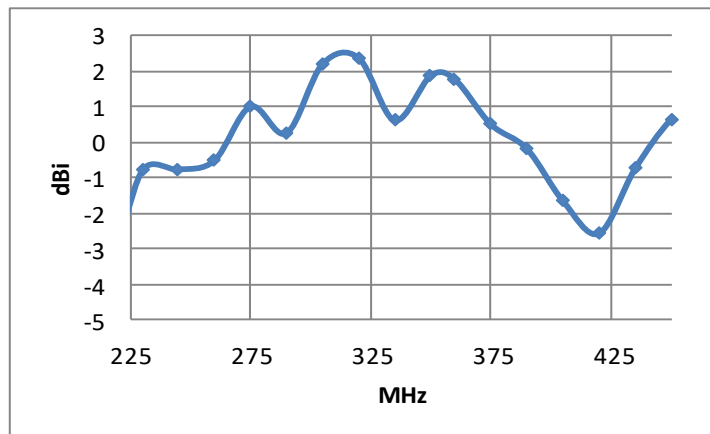


*Standard Base
(GPS base option available)

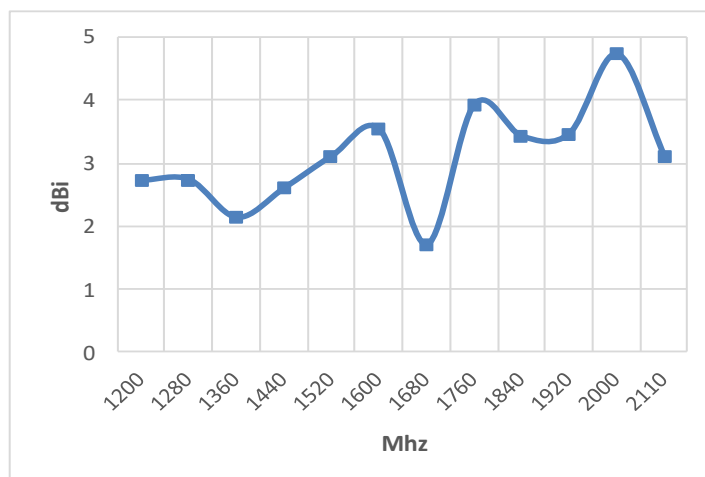
Gain Curves



VHF gain, dBi, in the centre of 1.2 x 1.2 m ground plane.
Gain will improve significantly on a 3 x 3 m ground plane

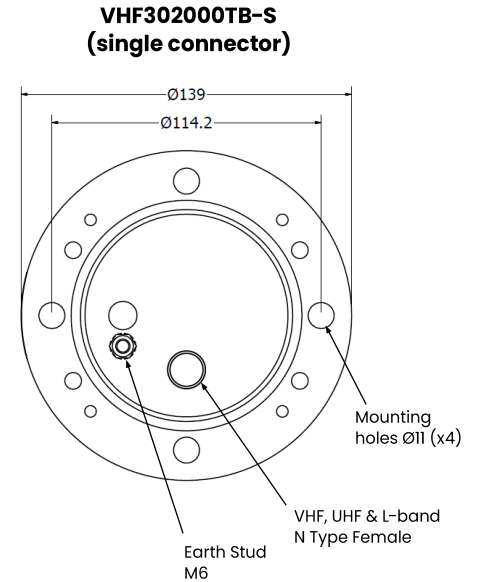
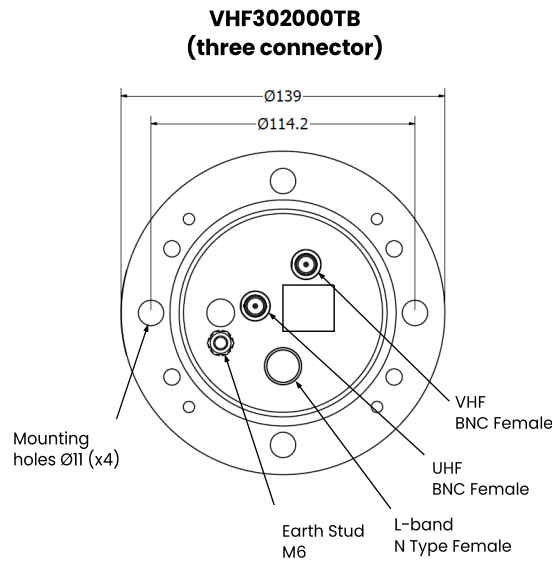


UHF gain, dBi

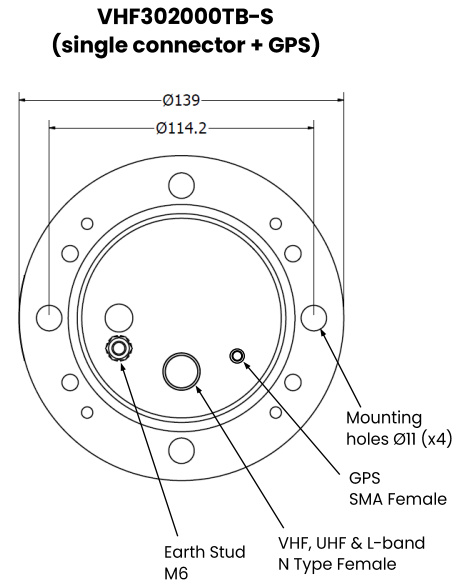
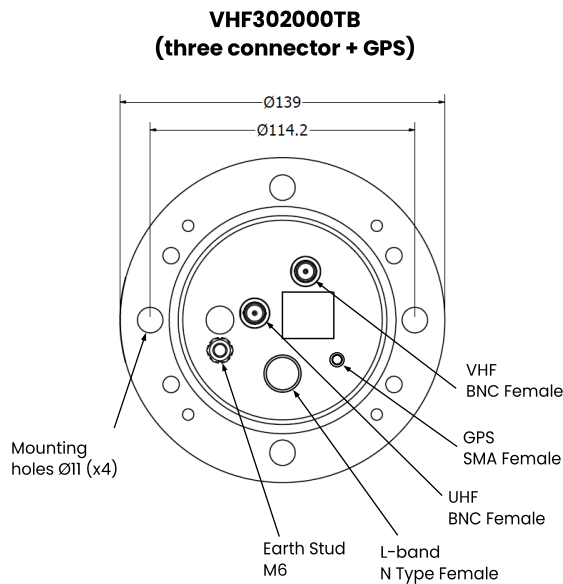
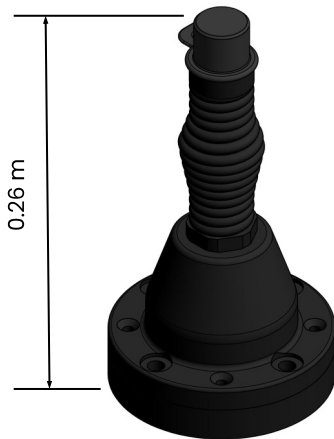


L-band gain, dBi

Nato 4-Hole Base



Nato 4-Hole GPS Base



GPS Electrical Specifications

	L1 GPS	L2 GPS
Frequency Band	1575.42 \pm 10 MHz	1227.60 \pm 10 MHz
Power Supply	2.7-5.5 V @ <60mA, + centre	2.7-5.5 V @ <60mA, + centre
Amplifier Gain	25 dB, GPS	25 dB, GPS
Pre Amplifier	26.5 dB @ 5 V	26.5 dB @ 5 V
Noise Figure	2.5 dB	2.5 dB
Polarisation	RHCP	RHCP

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All specifications are subject to change without notice
The information contained herein is for reference only and does not constitute a warranty of performance

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