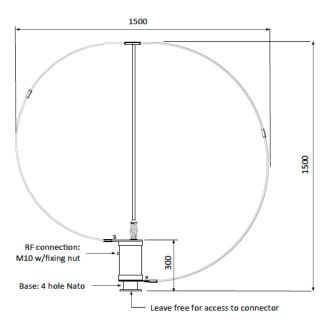


On the Move Vehicle HF Loop Antenna

The **TSE-ANT-VEHHF-OTM** is a compact HF antenna for on-the-move vehicular platforms from 2 to 30 MHz. It is designed to provide superior Near Vertical Incident Skywave (NVIS) performance at distances from 0 to 500 km and allows continuous communications in ground-wave, NVIS and skywave applications. The On the Move Vehicle HF Antenna is a direct replacement for existing whip antennas and uses the same NATO base support. The replacement of the whip by the On the Move Vehicle HF Antenna takes just a few minutes and requires no special installation equipment nor changes to the structure of the vehicle.

This compact antenna is recommended for multiple antenna platforms, both because of its small size and because it reduces co-site interference with all V/UHF whip antennas. The On the Move Vehicle HF Antenna has been designed to give superior reliability and easier installation at a far lower cost compared to other HF NVIS antennas.





Note- Antenna can be configured for use with most HF tuners on the market. The standard model is set for use with either the Harris model 5383 or model 5382. Customer must inform TSE prior to purchase in order to calculate custom tuner setup lead times.

Part #: TSE-ANT-VEHHF-OTM

Tactical Support Equipment Inc. 4039 Barefoot Road Fayetteville, NC 28306

For More Information
Contact sales@tserecon.com

Phone: 800.889.4030 Phone: 910.425.3360 Fax: 910.425.3361

www.tserecon.com

Specifications subject to change without notice, the information in this document does not form part of any contract or quote.

Specifications (TSE-ANT-VEHHF-OTM):	
Electrical	
Frequency	2-30 MHz
Gain	-15dBi @ 3.5MHz, -8dBi @ 10MHz
Impedance	1 to 1000 ohm, 50 ohm nominal
Radiation Pattern	See diagram overleaf
Power Rating	200 Watts PEP and Average
Power Supply	18-32 VDC, normally supplied from Power Amplifier
Connector	10mm stud for RF MIL-C-5015, 7pin for interface to ATU and supply voltage
Interface	The antenna has two digital inputs and one output, and a RS485 serial port. Software is then configured depending on radio system
Mechanical	
Design	Copper braided fiberglass collapsible radiating loop. Feed tower made from aluminum and fiberglass.
Size	Tower: 25 x 15cm (H x Diameter), Radiating loop: 150cm diameter
Weight	15.43 lbs. (7 kg)
Wind Rating	55 m/s = 125 mph
Finish	Polyurethane lacquer, normally black. Radiating element covered with black heat shrink tube
Environmental	Test method Per MIL-STD-810F Shock & Vibration Ground tactical Water resistance IP67 Temperature range -40° to +71°C
Installation	Standard 4 hole NATO Base

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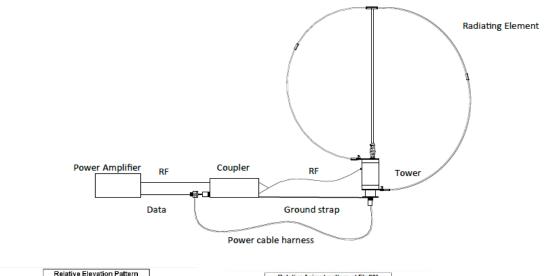
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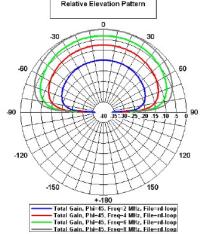
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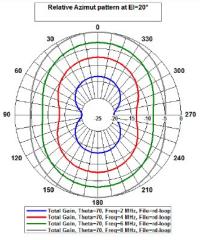
Interface Description:

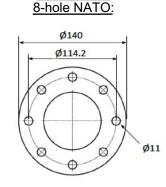
The antenna interfaces directly to the coupler of many popular HF radios. Frequency information is obtained using an internal frequency counter or received in digital format through an RS485 line. The antenna is fully compatible with Fixed Frequency, MIL-STD-188-141A ALE and 3G ALE/data modes. The antenna works with systems up to 200Watts.

The On the Move Vehicle HF Antenna is lightweight and has a low physical profile that helps reduce vehicle antenna placement problems and has been designed for severe military environmental conditions. The antenna includes an easily assembled fibre-glass loop radiating element, a support rod with spring which gives mechanical support, a low-profile tower unit which adapts the impedance for high efficiency tuning by the coupler, an interface cable, an RF cable and a ground strap. The existing whip can be stored in the vehicle as an emergency back-up.









Bolt Pattern

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