

VHF302600TB-F (040268-38)

VHF/UHF/L-Band vehicle whip, tri-band, high isolation, monopole/dipole/dipole, 1.64 m, 30-88 MHz, 225-450 MHz, 1200-2600 MHz

Tactical Antennas: Vehicle Mount



Features

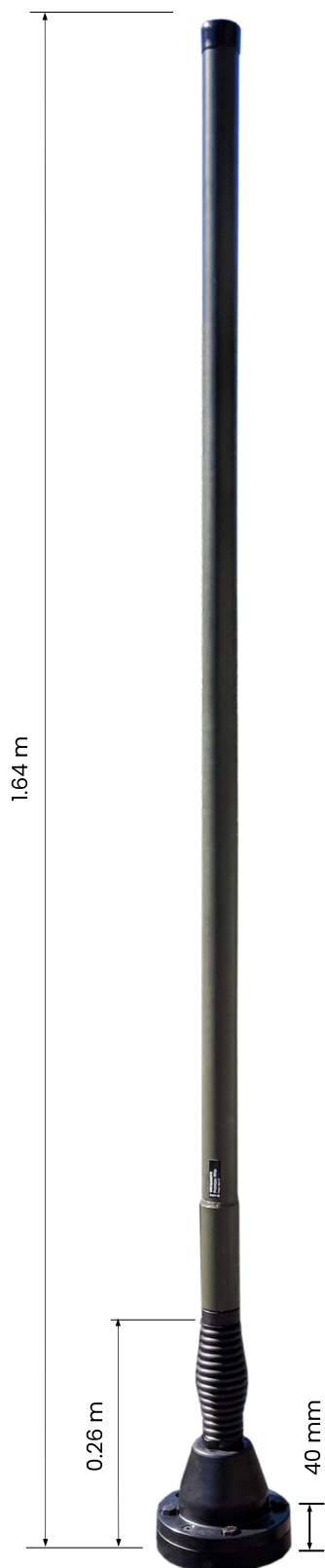
- Unique tri-band design (patented) with high isolation between ports
- 30-88 MHz, 225-450 MHz and 1200-2600 MHz
- 3-ports VHF, UHF and L-S band with high isolation between bands
- Designed for operation on all military platforms
- Suitable for operation on shelters, mounted on masts or in other permanent installations
- Rugged high quality antenna with a durable construction
- NATO flange base with spring
- UHF dipole and L-S band antenna elements are located high up in the whip for maximum range
- VHF requires a ground plane
- Includes tie-down kit

Electrical Specifications

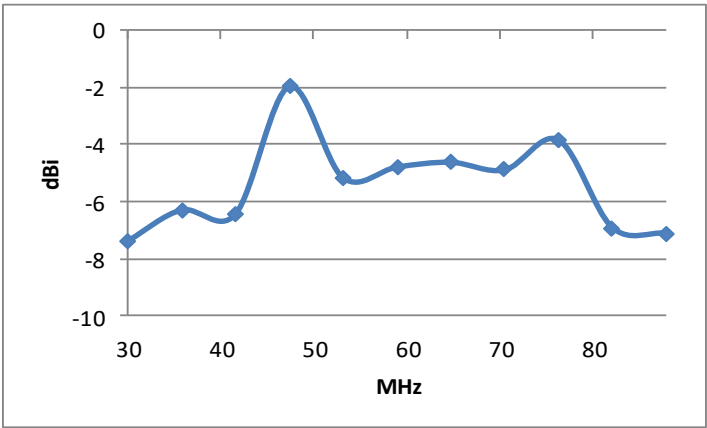
Frequency Range	VHF: 30-88 MHz UHF: 225-450 MHz L-S band: 1200-2600 MHz
VSWR	VHF: < 3.5:1, UHF: < 3.0:1, L-S band: < 3.0:1
Port-to-Port Isolation	UHF - L-S band: >75 dB for UHF, >55 dB for L-S band UHF - VHF: >60 dB for VHF, >65 dB for UHF VHF - L-S band: >65 dB for VHF, >55 dB for L-S band
Nominal Impedance	50 Ω
Power Rating	VHF: 75 W, UHF: 75 W, L-S band: 50 W
Gain	See graphs overleaf
Radiation Pattern	Omnidirectional within ± 2 dB
Polarisation	Vertical
Connector	VHF: BNC female, UHF: BNC female, L-S band: N female

Mechanical Specifications

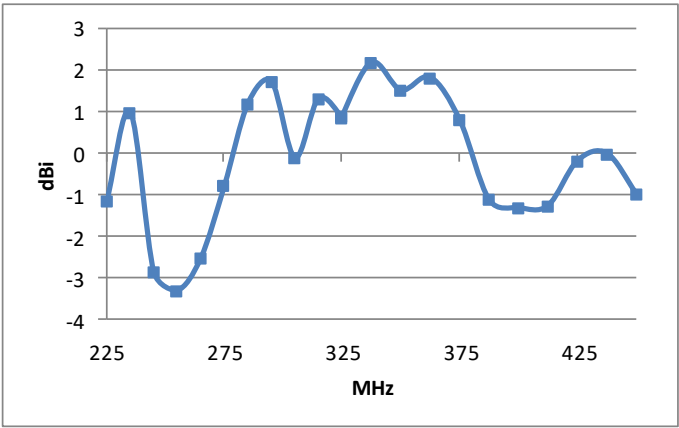
Design	VHF: End feed monopole. UHF: Dipole. L-S band dipole elements. Radiating elements completely enclosed in epoxy/fibreglass laminate. Metal parts are brass, aluminium and stainless steel.
Length	1.64 m
Weight	Whip: 1.2 kg Base: 2.7 kg
Wind Rating	55 m/s
Finish	Polyurethane lacquer, Tan
Temperature Range	- 55°C to + 71°C



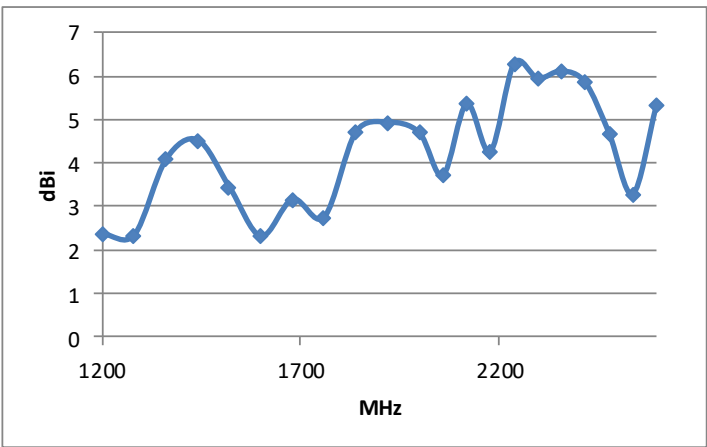
Gain Curves



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

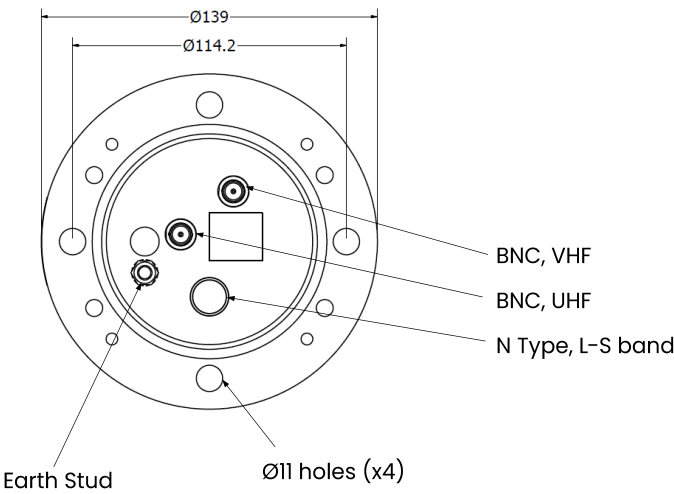
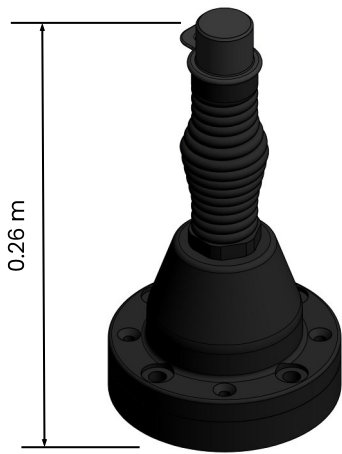


UHF gain, dBi



L-S band gain, dBi

Nato 4-Hole Base



Tie-down Kit



Technical Description

The tie-down kit is used to lower Comrod antennas during deployment or when a lower visual profile is required. The kit is comprised of a EPDM rubber retaining loop with 2 m of rope. The tie-down loop is placed over the antenna element and rope tied to a suitable point on the vehicle. The self locking loop ensures the antenna element is held firmly in place.



Mechanical Specifications

Design	EPDM rubber self locking tie-down with polyester rope
Length	Rope length 2 m
Weight	100 g
Finish	Polyurethane lacquer, olive drab, other colours on request.
Temperature Range	- 55 °C to + 71°C
Installation	To fit a 36 mm diameter antenna element

Antenna Kit Contents

Description	Qty	Part No. (Tan)	NSN
Complete Antenna Kit	1	040268-38	Not assigned
Antenna Whip	1	040283-2	5985-01-675-3230
Antenna Spring Base	1	040282-2	5985-01-675-3240
Protective cap	1		
Mounting Kit:	1	044156-11	5985-01-675-3235
Bolt, 3/8"-24 (UNF) x 2"	4		
Bolt, 3/8"-16 (UNC) x 2.5"	4		
Nut 3/8 - 16 (UNC)	4		
Washer, ø20/11	8		
Spring washer	4		
O-ring, ø89 x 3	1		
Ground strap	1		
Tie-Down 36	1	046010	4020-01-682-3753
User Manual		791200	Not assigned

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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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