

Features:

- 30-88MHz, 118-480, 700-2700MHz.
- 2 connectors, VHF LOW, VHF/UHF/L-S band
- High isolation between ports.
- High pass filter on VHF LOW port to reduce HF interference
- Designed for operation on all kinds of vehicles including armored 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-S band antenna elements are located high up in the whip for maximum range. VHF requires a ground plane.

Electrical specifications:

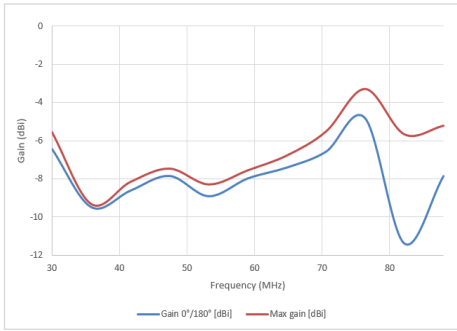
Frequency range	VHF LOW: 30-88 MHz VHF-UHF: 118-480 MHz UHF (LTE + L-S band): 700-2700 MHz
VSWR *	VHF LOW: ≤ 3.5:1 VHF-UHF: ≤ 3:1 UHF (LTE + L-S band): ≤ 3:1
Port-to-port isolation	See curves
Nominal impedance	50 Ohm
Power rating	50 W
Gain	See curves
Radiation pattern	Omnidirectional within ±2 dB
Polarization	Vertical
Connectors	VHF LOW: TNC female, UHF (LTE + L-S band): N female

* VSWR can rise to 3.5:1 for 5% of the band.

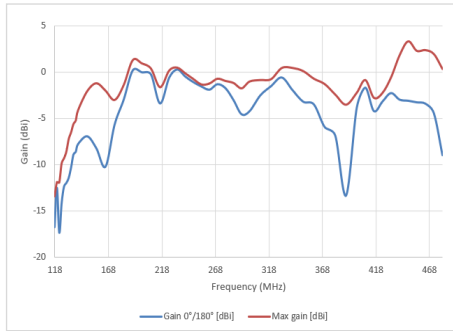
Mechanical specifications:

Design	VHF: End feed monopole. UHF: Dipole. L-S band dipole elements. Radiating elements completely enclosed in epoxy/fiberglass laminate and foam filled. Metal parts are brass, aluminum and stainless steel.
Length	1.93 m (76 in)
Weight	Whip: 1.65 kg (3.7 lbs), Base: 2.75 kg (6 lbs)
Wind rating	55 m/s (125mph)
Finish	Polyurethane lacquer
Temperature range	-55°C to +71°C, -67°F to +160°F

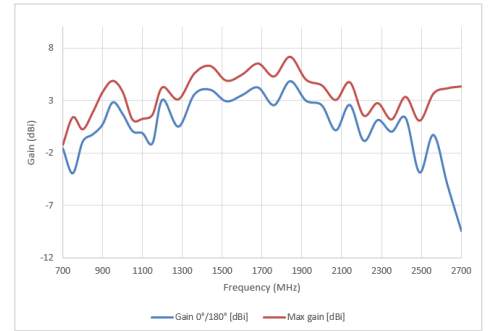
Gain Curves



VHF LOW (30-88 MHz) gain, dBi, in the center of 1.2 x 1.2m (4 x 4 ft) ground plane. Gain will improve significantly on a 3 x 3m (10ft x 10ft) ground plane

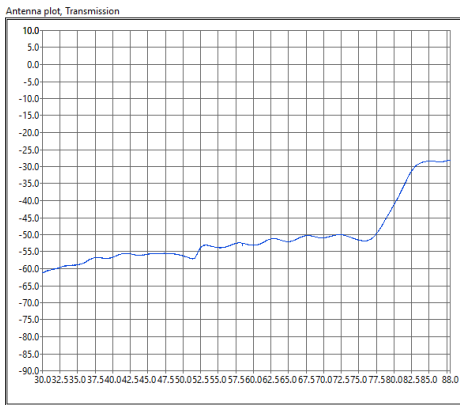


VHF-UHF, 118-480 MHz, (dBi)
Center of 1.2 x 1.2m (4 x 4 ft) ground plane.

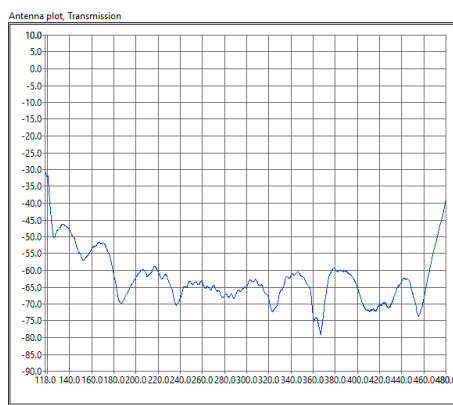


UHF (LTE + L-S band), 703-2700 MHz, (dBi)
Center of 1.2 x 1.2m (4 x 4 ft) ground plane.

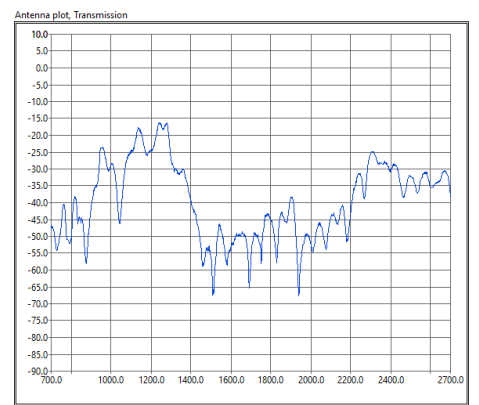
Isolation Curves (port-to-port) *



VHF LOW, 30-88 MHz, (dB)



VHF-UHF, 118-480 MHz, (dB)

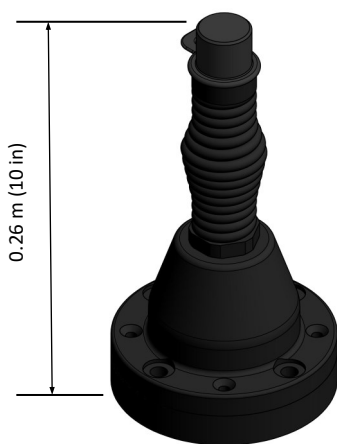


UHF (LTE + L-S band), 703-2700 MHz, (dB)

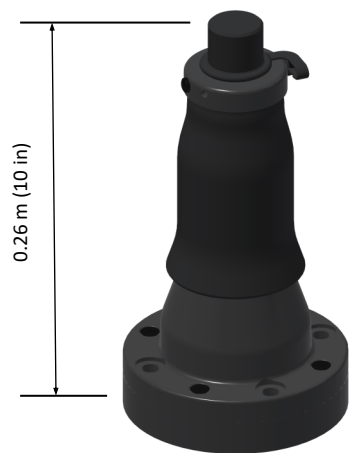
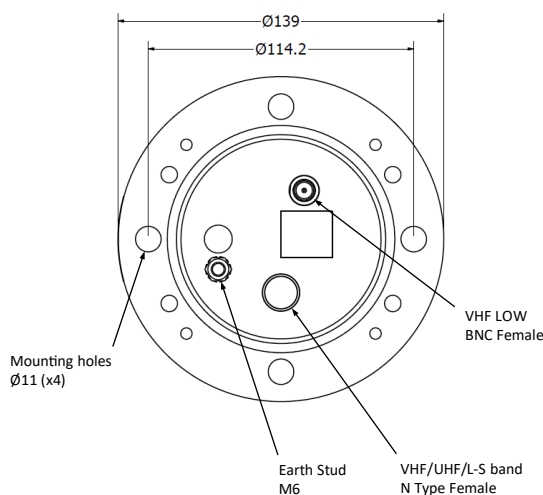
* With optional external diplexer (see page 3)

Nato 4-Hole Spring Base

VHF302700TB-WBE
(two connector)



Spring Base



With Spring Damper

Optional Accessories:

DIPLEX-480700	Antenna splitter, 118-480 MHz and 700-2700 MHz, Quarter box form factor
DIPLEX-480700-S	Antenna splitter, 118-480 MHz and 700-2700 MHz, Small form factor

DIPLEX-480700

DIPLEX-480700-S

