

# DPV-70

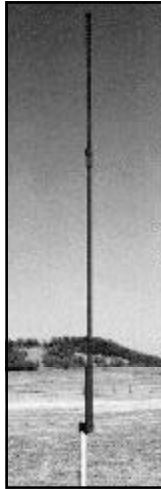
- GROUND-TO-AIR APPLICATIONS
- MIL QUALIFIED
- COLLINEAR
- VHF/UHF FREQUENCY RANGE
- OMNIDIRECTIONAL

## Applications

The DPV-70 (MIL Nomenclature AS-3244/TS) is a three-element collinear antenna consisting of two VHF and one UHF antenna in a common filament-wound fiberglass radome assembly. The antenna is designed for ground-air-ground communication circuits.

## Features

The two VHF sections cover the frequency range of 116 to 150 MHz and the UHF section covers the 225 to 400 MHz frequency range. The antenna is configured with a VHF antenna as the bottom element, a UHF antenna as the middle element, and a second VHF antenna element in a removable top section. The antenna is provided with an offset base for mounting on a 3" O.D. pipe. The top VHF section is removable for storage during transport. Antenna interface connectors are Type "N".



## SPECIFICATIONS

Frequency Range	
VHF	116 to 150 MHz
UHF	225 to 400 MHz
Gain	1 dBi min
H Plane Pattern	Omni within 1 dB
Half Power Beamwidth	75 ± 15 degrees
VSWR	3.0:1 maximum
Impedance	50 Ohms nominal
Antenna to Antenna Isolation	30 dB
Altitude	
Operation	10,000 ft
Storage	50,000 ft
Power Handling	50 W peak and avg
Size	
Deployed	168" x 2.9" dia tapered to 1.6" dia
Stowed	112" x 2.9" dia
Weight	
Net	18.5 lbs
Shipping	21 lbs
Wind and Ice Loading	80 mph 1" radial ice
Temperature Range	-32°C to +52°C
Rain	MIL-STD-810 Method 506.1
Salt Fog, 48 hours	MIL-STD-810 Method 509.1
Humidity	MIL-STD-810 Method 507.1 Procedure 2
Fungus, 28 days	MIL-STD-810 Method 5081
Sand and Dust	MIL-STD-810 Method 510.1
Vibration	MIL-STD-810 Method 514.2, Cat G

