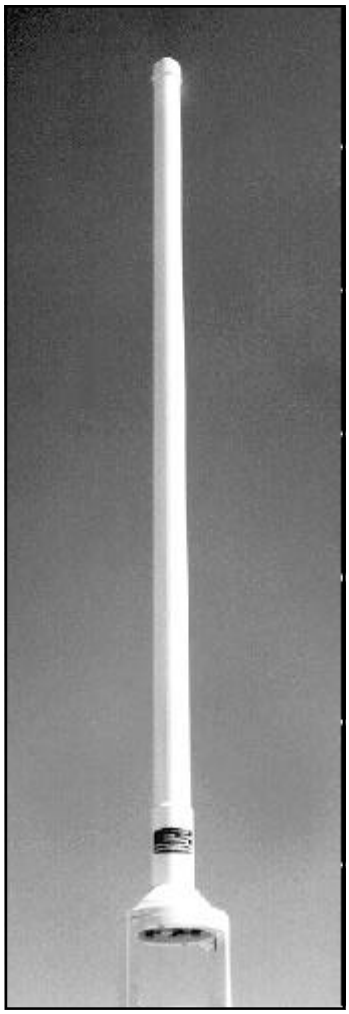
DPV-77

- OMNIDIRECTIONAL
- VERTICALLY POLARIZED
- DME ANTENNA



Applications

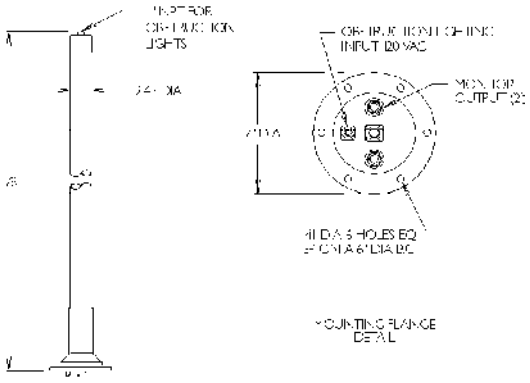
The DPV-77 is an omnidirectional UHF antenna designed for ground-to-air line-of-sight circuits used with distance measuring equipment (DME) systems. The antenna is vertically polarized, has an instantaneous bandwidth of 960 to 1215 MHz and has a 3000 watt peak power capacity. The lightweight, rugged design, makes the antenna ideal for rapid deployment applications.

Features

The DPV-77 is an antenna designed for distance measuring suitable for use in conjunction with terminal and enroute navigation aids. The DPV-77 antenna is a vertically polarized, eight element collinear dipole array with a maximum storage length of 79 inches. The antenna assembly consists of multiple dipole elements arranged in a collinear array and fed with a microstrip corporate feed network that terminates in a type “N” coaxial connector. The dipole elements are housed in a fiberglass tubular housing. The elements are isolated from the housing , damping shock and vibration.

Optional Equipment

Coaxial cable, connector adapters and mating adapters.



ANTENNA PRODUCTS

SPECIFICATIONS

Frequency Range	960-1215 MHz
VSWR	2:1 maximum
Impedance	50 ohms unbalanced
Power	290 watts avg, 3000 watts peak
Polarization	Vertical
Gain	8 dBi
Patterns	
Azimuth	Omnidirectional ± 1 dB
Elevation	Beam Peak at 2°-5° above the horizon
Input	Connector “N”
Wind	100 mph
Weight	8 lbs (excluding obstruction light & adapter pipe)
Size	79 in x 7 in dia at base
Finish	White per Fed Spec TT-C-542E
Temperature	-50°C to +70°C