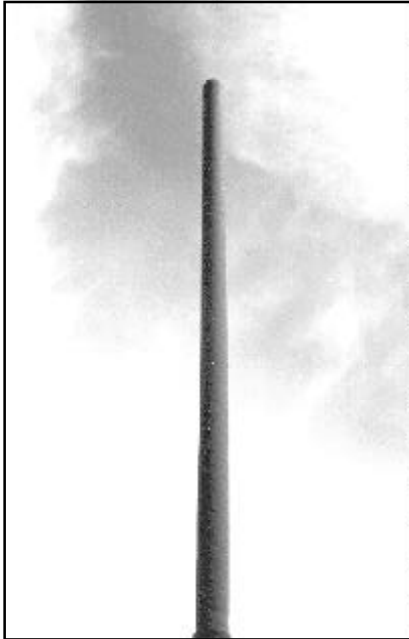
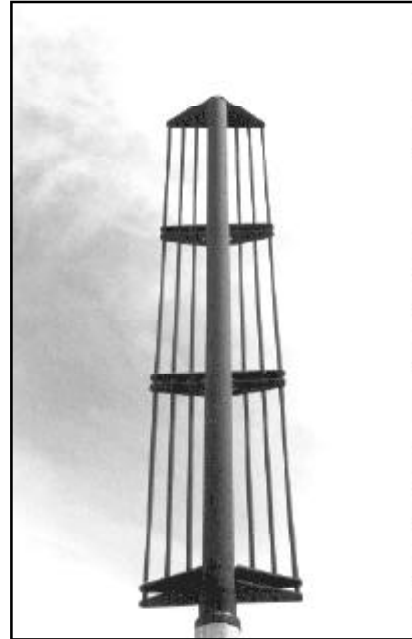


DPV-75/75A

- JTIDS CLASS 2
- MILITARIZED OMNIDIRECTIONAL
- QUICK ERECT



DPV-75



DPV-75A

Applications

The DPV-75 is a militarized omnidirectional transportable UHF antenna designed for ground-to-air line-of-sight tactical communications circuits. The antenna is vertically polarized, has an instantaneous band width of 960 to 1215 MHz with a 250 watt average power capacity. The lightweight, rugged design makes the antenna ideal for rapid deployment applications. The omnidirectional antenna is supplied to support ground-to-air JTIDS class 2 navigational band communications circuits. The antenna is designed for mast mounting. The DPV-75 can be converted to a directional antenna by adding a clamp on reflector.

Features

The DPV-75 is an antenna designed for tactical field operations where transportability is essential and erection/disassembly must be accomplished in a minimum time by a minimum number of personnel. The DPV-75 antenna is a vertically polarized, collinear dipole array.

The antenna assembly consists of eight 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 with a maximum storage length of 74 inches. The elements are isolated from the housing with cushioned resilient foam strips, damping shock and vibration, which is prevalent in tactical equipment.

Optional Equipment

A reflector is available which converts the DPV-75 to a DPV-75A directional antenna

SPECIFICATIONS

Frequency Range	960-1215	Input Connector	Type "N"
VSWR	2.0 maximum	Wind	100 knots
Impedance	50 Ohms	Weight	8 lbs
Power	250 watts avg, 1000 watts peak	Size	74" x 3" diameter
Polarization	Vertical	Finish	383 green per MIL-P-53039
Gain	8 dBi	Temperature	-51°C to +49°C
Patterns		Humidity	95% IAW Para 3.13.3 of MIL-E-16400
Azimuth	Omnidirectional ± 1 dB	Altitude	Sea level to 10,000 feet
Elevation	Between 6° and 35° above the horizon, not less than CSC2 normalized to -15 dB at 6 deg.	Shock (in transit case)	4.5 G at 100 msec
		Vibration (in transit case)	1.08 G rms, 5-500 Hz random