



APPLICATIONS

The DPV-51XN is the original NTRD antenna, nomenclature as 5985-01-507-228. The antenna consists of two vertically polarized, omnidirectional, dipoles fed in phase, covering the frequency range 225 to 450 MHz. These dipoles are sealed in a single fiberglass radome that provides both mechanical stability and environmental protection in an extreme environment. It is provided with a coaxial mounting arrangement to enclose the electrical connections away from the environment. The element has a threaded connector to allow removal for transport purposes.

ELECTRICAL SPECIFICATIONS

FREQUENCY RANGE	225-450 MHz
VSWR	2.5:1 maximum
RF POWER GAIN	1-3 dbi minimum
INPUT IMPEDANCE	50 ohms
RF POWER RATING	50 Watts
POLARIZATION	Vertical
ELEVATION BEAMWIDTH	22°
AZIMUTH PATTERN	Omni ± 1 db
ELEVATION PATTERN PEAK	Horizon ± 10°
ANTENNA RESISTANCE	Less than 1 ohm to Gnd

MECHANICAL SPECIFICATIONS

CONNECTOR	Input Type "N" Female
RADOME	Fiberglass
LENGTH	Approx 72" (includes spring base)
WEIGHT	9 lbs
BASE RADOME DIA.	1.25"
DIAMETER (BASE)	5.818"
GROUNDING	Stud on Base
MOUNT VEHICLE	4 Bolts on 4.5-inch BC
TEMPERATURE	50°C to +70°C
HUMIDITY	0-100%
WIND AND ICE	85 Knots with 1/2" Radial
RAIN	Up to 7" per hour

