

GENERAL DESCRIPTION

UHF whip monopole broadband antenna designed to equip Handheld radio.
It operates in transmit-receive mode from 225 to 512 MHz via broad-band base matching unit.

The antenna is made of the following components:

1. Matching unit box
2. Flexible whip

The antenna is designed ergonomically to provide the minimum hazard to operating personnel under normal operating conditions. All contact areas are at a level of voltage which is not a hazard to personnel. With respect to the danger represented by chemicals or radioactivity dusts, the antenna includes as many smooth surfaces as possible and as few porous materials as feasible.

No paint is used. The metal parts are given a covering to protect them from corrosion.

ELECTRICAL SPECIFICATION

Frequency range	225 to 512 MHz
Polarisation	Vertical
Connection	TNC plug
Characteristic impedance	50 Ω
Gain	See graph below
Standing wave ratio*	VSWR ≤ 3:1 225-450 MHz VSWR ≤ 3.5:1 450-512 MHz
Power Rating	16W for 30 minutes at a temperature of 70°C

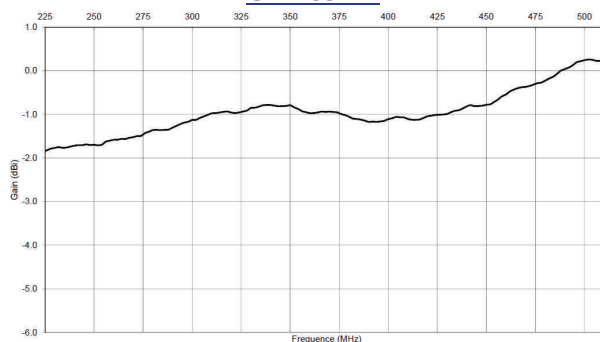
MECHANICAL SPECIFICATION

Length	≤ 315mm
Length of rigid part	≤ 80mm
Weight	≤ 100 g

ENVIRONMENTAL SPECIFICATION

Temperature (operation and storage)	-40°C to +70°C
Relative Humidity	95% RH
Salt fog	96 hours
Immersion	1m
Shock	3 shocks per axis and per direction
Free fall	26 falls of the equipped portable radio (antenna + radio + batteries) from 1.2 m onto 5 cm board

GAIN CURVE



*Antenna mounted on a dummy portable radio