

INSTRUCTION SHEET

DISCONE TYPE BASE STATION ANTENNA

High efficiency, vertically polarized Discone type Antenna covering the 80-480 MHz ranges. All aluminium construction with each 8 pcs. of both radials and radiators. Radials droop for 50 ohm match. Accepts RG-8/U cable and a PL-259 connector.

(RG-8/U cable and PL-259 connector: Not supplied herewith)

Specifications

Type:	Discone Antenna
Frequency range:	80-480 MHz
Nominal Input Impedance:	50 ohms
Gain:	3.4 db *
Maximum Power:	500 watts
Termination:	SO-239 type
VSWR:	Less than 1.5
Weight:	5.7 lbs.

*in comparison with $\frac{1}{4}$ wave antenna

Remark for Installation

Select a place where obstacles as few as possible are around the antenna in the horizontal direction.

If you have obstacles around it, you cannot enjoy enough performance. Use a 50 ohm coaxial cable, RG-8/U or 8D-2V.

How to Assemble

Very easy to assemble. The top plate(round) for radiator fitting and the cone cup are pre-assembled. So, only fix elements of radials and radiators, and no special adjustment is required. First, fix radiator elements (shorter ones) as shown Figure 1. Next, fix radial elements (longer ones) to the cone cup as well. Then, route a coaxial cable through the hole of the connector cover and solder to the PL-259 connector.

This completes assembly.

Figure I

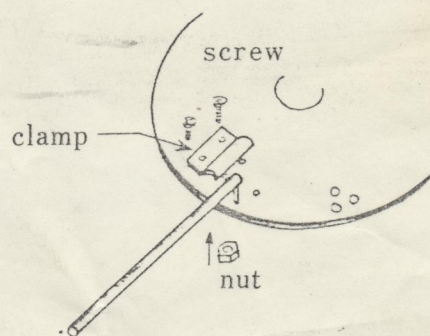


Figure II

