

COMET ANTENNA

DS-15 25~1500MHz

Wide Band Discone

Features:

- * DS-15 is extremely wide band discone antenna, which allows TX operation at 50, 144, 430, 900 and 1200MHz bands.
- * All hardwares are made of anti-corrosive stainless steel. Light weight and compactly designed discone for easy mounting.

Specifications:

RX Frequency	: 25 to 1500MHz
TX Frequency	: 50, 145, 435, 900 & 1200MHz.
Gain	: 5.12dBi
Max. Power	: 100 W
Impedance	: 50 ohm
V.S.W.R.	: Less than 1.5 (at center of TX-frequency)
Length	: 1.4m
Weight	: 1.45 kg
Connector	: PL259 female type
Available Mast dia.	: 30 - 62 φ

Assembling Works:

Please refer to the right figs. and Parts List.

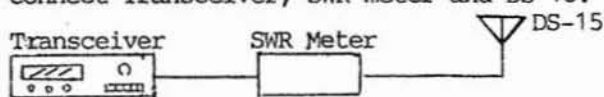
- 1) Please mount Support Pipe onto your Pole, using Mount Bracket Assembly and U-Bolt.
- The distance from the low-end of the Mount Bracket to the low-end of the Support Pipe is to be 3cm approximately.
- 2) Pass your coax. cable (w/PL-259 connector) through the Support Pipe and assemble to the Power Feeding Section. Please cover the connector joint part by the Self-Melting-Tape, prolonging twice as long, for complete water-proof.
- 3) Then, mount the Power Feeding Section on the Support Pipe, and assemble it with Hex Bolt and Sp. Washer.
- 4) Assemble 6 Disc Elements (with Caps.) to the Power Feeding Section and lock them with Nuts tightly.
- 5) Please confirm again the tight-fastening of each screws, bolts and nuts.
- 6) Finally, assemble 6 Cone Elements (with Caps.) to the Power Feeding Section, and lock them with Nuts firmly.

The assembling works is finished completely.

How to adjust 50MHz TX-Frequency:

Pre-set center freq. is 51.00MHz.

- 1) Connect Transceiver, SWR meter and DS-15.



- 2) Unfasten the Screw at 50MHz Top Element. Then, adjust length of the Top Element, watching SWR Meter. Lower freq.-longer, and higher-shorter.
- 3) Freq. change per each 1cm is 0.6MHz.
- 4) When much higher freq. is proposed, you can cut off the low-end of the Top Element.

Note: Please use high quality coax. cable of 50 - 52 ohm standard.

Parts List:

No.	Parts Name	Qty
1)	Power Feeding Section	1pce.
2)	50MHz Top Element	1"
3)	50MHz Loading Coil	1"
4)	50MHz Lower Element	1"
5)	Disc Element w/Nut	6"
6)	Disc Cap	6"
7)	Cone Element w/Nut	6"
8)	Cone Cap	6"
9)	Support Pipe	1"
10)	Fix Bolt & Sp. Washer	1"
11)	Mount Bracket, Nut & Sp.Washer	1set
12)	U-Bolt, Nut & Sp. Washer	1"
13)	50MHz Ele. fix Screw	1pce.
14)	Self-Melting Tape	1"
15)	Hex. Wrench	1"

