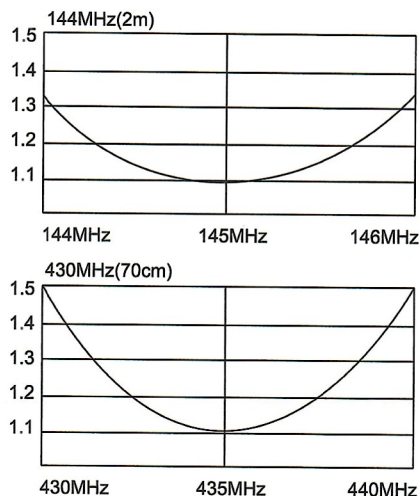


● VSWR表  
VSWR charts



● 規格

周波数 : 144~146MHz、430~440MHz  
利得 : 4.5dB(144MHz)、7.2dB(430MHz)  
インピーダンス : 50Ω  
V.SWR : 1.5以下  
耐入力 : 100W(FM)  
耐風速 : 60m/sec  
適合マスト径 : 30~62φ  
全長 : 2.03m  
重量 : 800g  
接栓 : M形  
形式 : 6/8λ C-Load(144MHz)、  
5/8λ 3段C-Load(430MHz)

■ お買い上げいただきました製品は、厳重な品質管理のもとに生産されておりますが、万一運搬中の事故などによる破損がありましたら、販売店にお申し付けください。

■ 本アンテナの仕様および外観は、改良のために予告なく変更 することがありますのでご了承ください。

2m/70cm DUAL BAND HIGH PERFORMANCE  
RADIALLESS MARINE AND BASE STATION  
GAIN VERTICAL ANTENNA

## SE-50

### OPERATION INSTRUCTIONS

#### Description

1. The SE-50 employs radialless structure on both 2m and 70cm bands. Since the antenna does not require any radial element, it serves well for wide variety of applications such as maritime mobile station or base station antenna.
2. Our original low insertion loss impedance matching circuit achieves high gain and low vswr at broader bandwidth.
3. Mast brackets are finished by anti-corrosion coating to prevent corrosion for long period of time.
4. One piece FRP element shell structure enables the antenna to achieve enough wind resistance strength to compete with professional quality antennas. It also permits perfect waterproof structure to avoid vswr instability caused by environmental circumstance.
5. The antenna can be used to operate on both 2m and 70cm bands simultaneously such as transmitting or receiving on both bands, or transmitting on one band and receiving on another by using optional DIAMOND's antenna duplexers.

6. The antenna employs DC ground structure to protect the radio equipment from high voltage caused by thunder lightnings.
7. The antenna covers entire 70cm band including repeater input/output frequencies.

#### Assembly

1. Connect coaxial cable with UHF connector to the feedpoint through support pipe.
2. Attach support pipe to the bottom of the feedpoint with lock screw by aligning holes in the pipe and the feedpoint assembly.
3. Install the antenna to a mast as shown in Fig. with taking entire balance of the antenna into account. (Note that making top end of the mast higher than feedpoint of the antenna causes to worsen vswr of the antenna.)

#### Adjustment

The SE-50 antenna is completely adjustment free. VSWR of the antenna is extraordinary high, be sure to see if each connecting section is well soldered or well contacted, since most of the troubles are invited by bad soldering or improper assembly of coaxial cable and/or connector. And be sure to use a coaxial cable which is 50 ohm Impedance.

#### Note

Though the SE-50 employs DC ground structure, circuit across the center conductor and ground section is open-circuit when measured by volt-ohm meter. If it is short-circuit, be sure to see all connections and cable assembly carefully.

In order to escape excess weight of a coaxial cable from the feedpoint of the antenna, have a turn of the coaxial cable at immediately below the feedpoint of the antenna. This is especially important when thick coaxial cable is used.

#### Specifications

Frequency	144-146MHz, 430-440MHz
Gain	4.5dB(2m) 7.2dB(70cm)
Impedance	50 ohms
VSWR	less than 1.5:1
Max. power rating	100W(FM)
Max. wind resistance	60m/sec(135MPH)
Mast diameter accepted	30 to 62mm(1.18 to 2.44")
Length	2.03m(79.9")
Weight	800g(1.76lbs)
Connector	UHF male
Type	6/8 wave C-Load antenna (2m) 5/8 wave three element C-Load antenna(70cm) repeater input/output frequencies compatible

#### Part name(number)

15401	Vertical element
15402	Mast bracket
15403	V-bolt with hex nuts
15404	Support pipe
15405	Screw