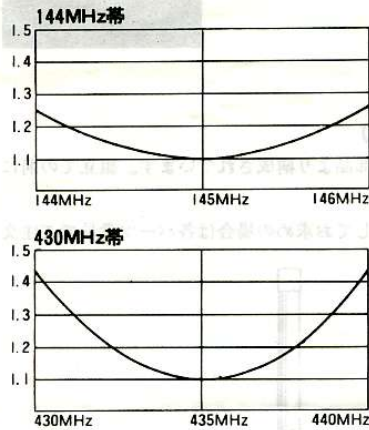


●送信空中線の型式

アマチュア局の免許申請書類の空中線型式には、「単一型」とお書きください。

●V-SWR表



●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/200W
- 耐風速/60m/sec.
- 適合マスト径/30~62φ
- 全長/1.7m
- 重量/0.9kg
- 形式/1/4λC-Load(144MHz)
- 1/3λC-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、取扱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、改良のため予告なく変更することがありますのでご了承ください。

144MHz, 430MHz FREQUENCY HIGH GAIN 2 BAND GROUND PLANE ANTENNA

**X-50**

[MADED GLASS FIBER]

OPERATING MANUAL

FEATURES

1. It is C-Load type antenna for base station, being able to obtain high gain for both 144/430MHz.
2. With the unique low-loss matching circuit, wide-band high gain and low V-SWR could be realized.
3. With the adoption of phase-coil having excellent results by 3-stage whip, high gain and higher-maximum power could be realized.
4. With one-body structure of antenna-element with glass wind-resistance as strong as that for 60m/sec. of "professional specification", and with the higher resistance against water, there is no instability of V-SWR by climate, thereby, it can be safely used even in seaside or plant-site because of erosion-proof and rustproof type.
5. Both of two bands, 2m and 70cm, can be operated simultaneously with DIAMOND'S genuine 2m/70cm DUPLEXER.

6. It is of arrester type. With the DC-grounding for the radiator, high-voltage current generated from the induction-thunder does not flow in the cable, thus radio-devices can be protected.

ASSEMBLING PROCEDURE

1. Mount 3 radials on the base part composing one body with glass-fiber element.
2. Fix the mounting metal assembly on the pipe bracket.  
Connect the coaxial cable to antenna-power supplying section through the inside of pipe bracket. Align the hole of pipe bracket to the hole under the base-part of antenna.
3. Fix it on the mast firmly by considering the balance as shown in the Fig 1.

ADJUSTING METHOD

X-50 is completely adjusted already. If V-SWR is high, it might be due to the poor contact at each section. Check the connecting parts of coaxial cable and

connectors as well as the soldering parts. Be sure to use to 50Ω type coaxial cable.

NOTES

Direct ground structure is employed in X-50, while in measuring the current by a tester, core element ground section are in open state (not short circuited). If short circuited, fully check the coaxial system (including the connector section).

SPECIFICATIONS

- Frequency range/144~146MHz, 430~440MHz
- Gain/4.5dB(144MHz), 7.2dB(430MHz)
- Max. power/200W
- Impedance/50ohms
- V-SWR 1.5 or lower
- Total length/67"
- Weight/2.3lbs
- Mast diameter accepted 30~62φ (1.18" to 2.44 O.D)
- Design/6/8 wave C-Load (144MHz)
- 5/8 wave 3-stages C-Load (430MHz)