

SA7000 広帯域受信アンテナ

取扱説明書

このアンテナは30kHz～2GHzを混変調や相互変調の心配なく、低雑音で受信する広帯域受信機用アンテナです。

組立

ローレンジ用エレメントは約58cm長、4mm径と2.5mm径2本のステンレスロッドをつないでネジを締め、10mm径のアルミパイプに接続しネジ止めします。3本つなぎで全長170cm位のエレメントをアンテナケース上部のコネクタ金具のところへはめ込み、2本のネジで固定します。

ハイレンジ用エレメントはコネクタアダプターに差し込み、付属の六角レンチでしっかりネジ止めします。アンテナケース上部のM接続穴にはめ込みますが、この時2本のエレメントの間隔が最大となるように配置します。(図参照)

設置

屋外となるべく周囲のひらけているところに直径40～60mm位のマストを用意していただき、しっかり垂直に立てます。SA7000を付属の2本のUクランプでしっかりと固定します。

付属の同軸ケーブルのM型コネクタ側をアンテナケース下部のM接続穴にしっかり接続し、防水キャップをかぶせビニールテープで保護すれば完了です。

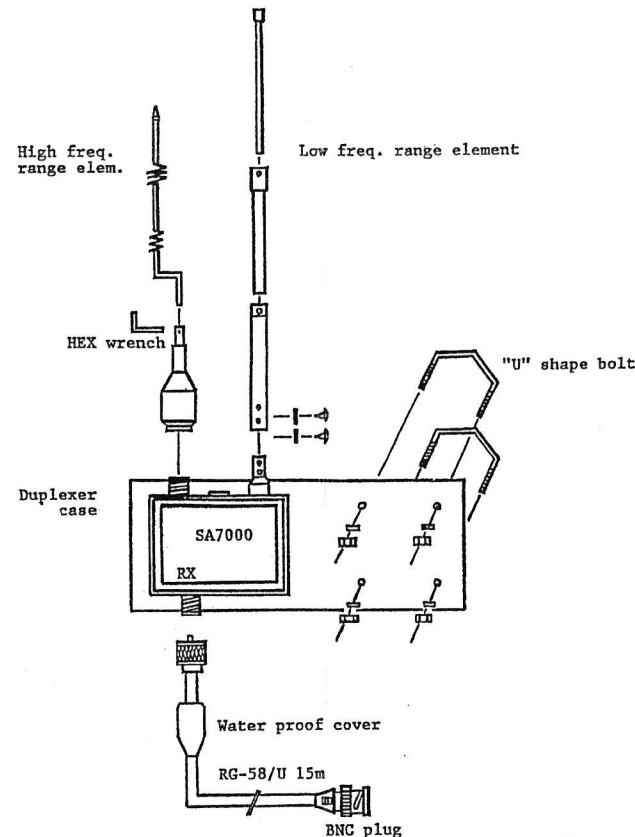
1.5mの同軸ケーブルは雨水の侵入を考慮して屋内に引き込みBNCコネクタを受信機に接続します。受信機側がBNC型でない場合は変換コネクタを用意して下さい。

ご注意

このアンテナは受信専用です。送信用に使用すると内部が破損します。送信や落雷による故障は保証いたしません。

仕様

周波数	30 kHz ~ 2 GHz
利得	最大 0 dB
インピーダンス	50 オーム
耐風速	50 m / sec
適合マスト径	30 ~ 60 mm
全長	1800 mm
同軸ケーブル	RG-58/U 15m BNCプラグ付



SA7000 super wide range receiving antenna

Designed for wide range of 30kHz - 2GHz VLF - SHF receiving. Complete passive system brings superior low noise and free of cross / intermodulations.

ASSEMBLING

For low frequency range element, joint and tighten screw two stainless steel rods of 58 cm. Then joint it with 10 mm diameter aluminum pipe and tighten screw to be total 170 cm long element. Joint 170 cm element to a antenna attachment on the duplexer case and fix with two each washers / screws.

For high frequency range element (that has two self air wound coils), joint with connector adapter and tighten screw by supplied hex wrench.

Firmly screw it on SO-239 receptor on the duplexer case for the element of the most far position from low frequency range element. (refer to the figure)

Prepare a mast (approx. 40 mm dia. not supplied) in vertical for supporting antenna by two "U" shape bolts.

Connect the coaxial cable SO-239 side to the duplexer case and slip in water proof cover then wrap with vinyl adhesive tape.

Lead in coaxial cable to your room (take care of water intrusion) to connect its BNC plug to your receiver.

CAUTION

This antenna is designed only for receiving and please do not try to operate transmission.

Warranty void for the damages by transmission and thunderbolt.

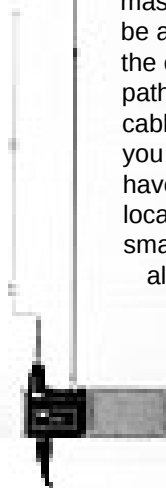
SPECIFICATION

Frequency range	30 kHz - 2 GHz
Gain	Max. 0 dB
Impedance	50 ohms
Endurance	50 m/s wind speed
Acceptable mast	30 - 60 mm dia.
Total length	1800 mm
Coaxial cable	RG-58/U 15m with BNC plug



SA7000 *Super wide band base aerial system*

The SA7000 is an ultra-wide range external receiving aerial with a useable frequency coverage of 30 kHz to 2 GHz - short wave / VHF / UHF. The aerial is designed for areas where space is a problem or when an "unobtrusive" installation is essential. The SA7000 is a passive arrangement providing two whip elements: a long element for short wave up to 30 MHz and a second shorter loaded whip aerial for frequencies up to 2 GHz, the loading coils are tuned around 150 & 800 MHz to enhance performance of the VHF & UHF bands. The aerial is very compact being just 1.80m in total height. A single coaxial lead feeds both whips in a weather proof enclosure which in turn bolts to a suitable supporting mast (not provided). Approximately 15m of terminated coaxial cable is supplied ready to plug in and go! The SA7000 is easy to assemble and use, an instruction sheet is supplied with the aerial, "V" bolts and clamps are included but a small stub mast will be required for installation which should be as high as possible and in clear space. Run the coaxial cable to your listening location, the path should not be important but avoid power cables, TV downloads and computers. Should you need to remove the BNC plug make sure you have a spare to re-fit, if you have difficulty in locating a plug then another is obtainable for a small charge. If you need to extend the cable, always use a good quality 50 OHM coaxial cable such as UR43 or UR76 (or quality RG58/U) and low loss connectors. If a long lead is required (20m plus), consider replacing the entire run with a heavier duty low loss cable such as UR67 or RG213.



Useable frequency range:	30kHz to 2GHz
Impedance:	50 OHM
Wind endurance:	50m per second
Acceptable support mast:	30 - 60mm diameter
Total length:	1.80m
Coaxial cable:	15m of Quality RG58/U with BNC plug
Power source:	Passive (no power)



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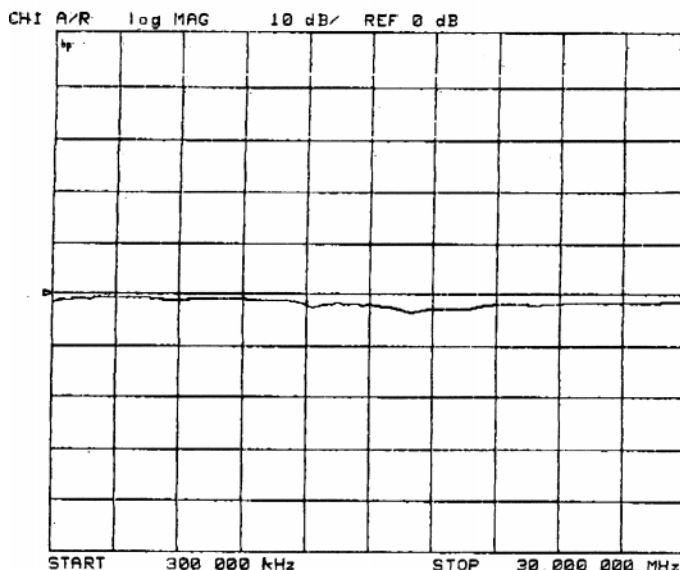
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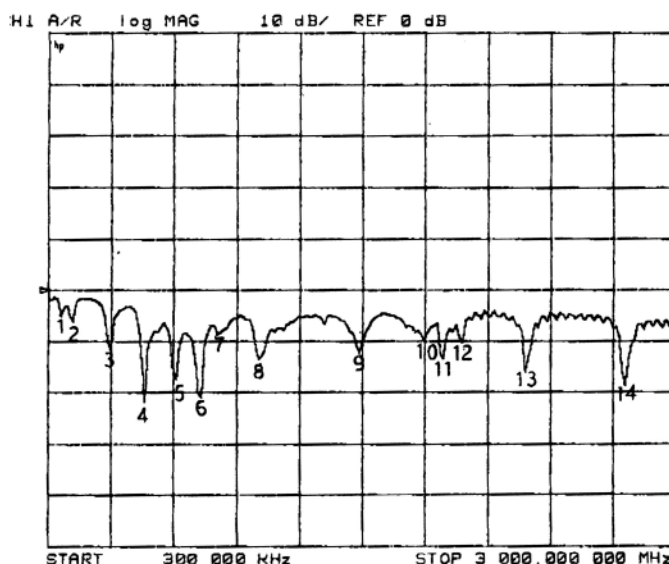
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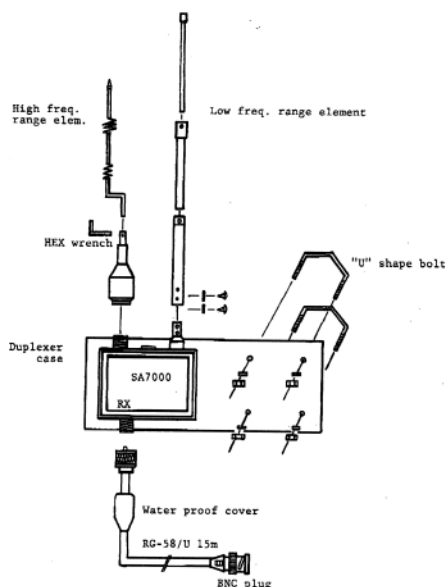


SA7000 plot shows 300kHz - 30MHz

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SA7000 plot shows 300kHz - 3GHz



1	56 MHz
2	115 MHz
3	294 MHz
4	464 MHz
5	609 MHz
6	728 MHz
7	820 MHz
8	1000 MHz
9	1485 MHz
10	1800 MHz
11	1885 MHz
12	1970 MHz
13	2280 MHz
14	2764 MHz