

HF BAND BALUN
(Balanced-to-Unbalanced transformer)

BU-50A

OPERATING INSTRUCTIONS

DIAMOND
ANTENNA

Thank you for purchasing the Diamond HF Dipole Antenna. Before using the product, please read carefully these OPERATING INSTRUCTIONS to operate properly. SAVE THESE INSTRUCTIONS.

●Features

If coaxial cable is used to feed to balanced type antennas, such as di-pole antenna, unbalanced current is generated. This unbalanced current not only cause turbulence to directivity of radio wave, but also can cause TVI or BCI by the radio wave from the cable.

BU-50A prevents unbalanced current and TVI and BCI, and also enhances the antenna's directivity.

●Use

BU-50A can be used with following antennas.

Di-pole antenna, yagi antenna, cubical antenna or other HF band balanced type antennas(50Ω).

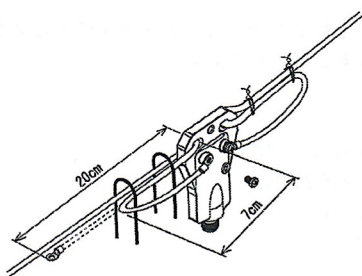
●Example of Installation

1. In the case of di-pole antenna:

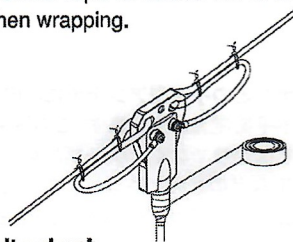
Reserve the tip of element a little longer, then adjust by cutting the element, while observing the SWR. In the case for multi-band, you can use two elements for each band.

2. Solder the lug terminal at the tip of the element and tie the element to the balun for about 20cm length with a rope.

Then fasten the lug terminal with the bracket and screws.

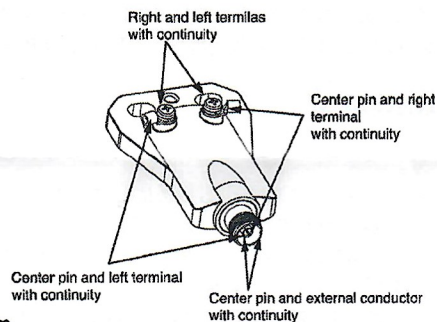


3. Connect the coaxial cable to the balun. For the purpose of waterproof, wrap the connector with self-adhesive tape, and on top wrap again with plastic tape. Pull the self-adhesive tape to about 1.5 to 2 times its former length when wrapping.



●Continuity check

BU-50A is a 3-wire winding transformer type. Connector and all terminals are conducted.



●Attention

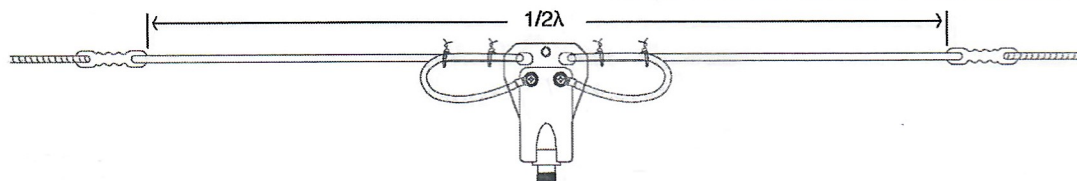
1. When SWR does not decrease, there is a great possibility that the ground or building is the cause, thus try to change the antenna's height.
2. Using element of high conductor resistance can have a bad influence on SWR.

●Specifications

Frequency range	: 1.7MHz-40MHz
Impedance	: 50Ω 1:1
Max. Power range	: 1.2kW PEP
Weight	: 110g

■Though these products purchased are manufactured under strict quality control, if damage is caused by transporting, ask your dealer promptly.

■Design and specifications of these products will be changed for future improvement without advance notice.



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