Antenna Coupler CU-464A/UR, Front View

DESCRIPTION OF COAST GUARD ELECTRONIC EQUIPMENT
FUNCTIONAL DESCRIPTION:
The Antenna Coupler CU-464A/UR provides a means of coupling the receiving antenna at a Loran-A transmitting station to a 52-ohm coaxial transmission line. This is accomplished by tuning two variable inductors which are connected in an “L” network. The unit is capable of the transformation of any antenna impedance between 4-j175 and 25-j250 Qms reactance to a value of 52 ±j0 at any frequency between 1.7 Mc to 2.0 Mc. This equipment is designed for outdoor service and mounting near the base of a vertical receiving antenna. Construction of the unit is such as to be capable of withstanding rough handling, abuse, and climatic conditions which might be encountered wherever these units might be installed.

RELATION TO OTHER EQUIPMENT:
Antenna Coupler CU-464A/UR is functionally equivalent to the type CU-464/UR and Navy type 47438 Antenna Couplers.

EQUIPMENT REQUIRED BUT NOT SUPPLIED:
No other equipment is required for satisfactory operation of Antenna Coupler CU-464A/UR.

ELECTRICAL AND MECHANICAL CHARACTERISTICS:
Input—Single wire antenna 55 to 95 feet long, 35-foot aluminum ship antenna, 43-foot aluminum whip antenna, or 43-foot fiberglass whip antenna.
Frequency Range—1.7 Mc to 2.0 Mc
Output—RG-148/U Coaxial Cable, Type UHF connector, matched to 52 ±j0 ohms impedance
Installation—Mounts on antenna pole or other suitable support by 4 bolts size 1/2-13 of suitable length.
Mounting Dimensions—16½” x 10½” center to center
Power Requirements—None

MANUFACTURER’S OR CONTRACTOR’S DATA:
Manufactured by:
SCOPE Incorporated
121 Fallfax Drive
Falls Church, Virginia
Manufacturer’s Drawing Number M500067-1
Purchase Description Number EEE-5-61
Contract Tcg-4167 (CG-51-393-A) Dated 30 March 1961

SHIPPING DATA:

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