

22 July 1964

Cog Service: USN FSN: 2F5915-789-2193

NETWORK, IMPEDANCE MATCHING CU-837/URC

Functional Class:

USA

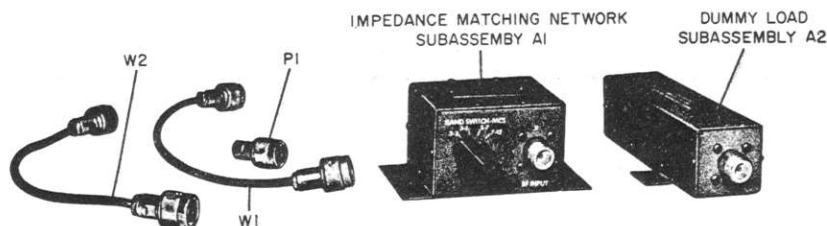
USN

USAF

TYPE CLASS:

Used by

MANUFACTURER'S NAME/CODE NUMBER: Piqua Engineering, Incorporated, (81380).



NETWORK, IMPEDANCE MATCHING CU-837/URC

FUNCTIONAL DESCRIPTION:

Network Impedance Matching CU-837/URC adapts the output of a TCS transmitter (or similar equipments) to the 50 ohm coaxial input of Antenna Coupler Group AN/SRA-22, equivalent antenna couplers, or antenna multicouplers. This unit was procured primarily for use with AN/SRA-22 and TCS transmitter. The dummy load provides a 50 ohm noninductive termination for tuning of the transmitter prior to tuning of the antenna coupler.

No field changes in effect at time of preparation (28 May 1964).

RELATION TO OTHER EQUIPMENT:

The CU-837/U is to be used with the AN/SRA-22 and TCS transmitter.

CU-837/URC NETWORK, IMPEDANCE MATCHING

EQUIPMENT REQUIRED BUT NOT SUPPLIED:

TECHNICAL CHARACTERISTICS:

FREQUENCY RANGE: 2 to 12 mc.

FREQUENCY BANDS: 2 to 3, 3 to 5, 5 to 7, and 7 to 12 mc.

CONTROLS: Manual bandswitch.

RF POWER INPUT: 100 W into network.

DUTY CYCLE (50 OHM LOAD)

1 MINUTE: 100 W.

5 MINUTES: 50 W.

CONTINUOUS: 25 W.

IMPEDANCE: Will introduce an impedance so that the TCS or similar transmitter output will match the 50 ohm input of Antenna Coupler Group AN/SRA-22.

AMBIENT TEMPERATURE: - 28° C to + 65° C.

AMBIENT HUMIDITY: 0 to 95%.

MAJOR COMPONENTS

QTY	ITEM	STOCK NUMBERS	DIMENSIONS (INCHES)	WEIGHT (LBS)
1	Network Impedance Matching CU-837/URC includes:	2F5915-789-2193	2-1/8 x 3-7/8 x 4-5/8	0.5
1	Dummy Load		1-1/8 x 3-1/8 x 6-3/4	0.5
2	RF Cable with connector ea end		11-1/2 lg	
1	RF Connector			
1	Technical Manual NAVSHIPS 93645(A)			

REFERENCE DATA AND LITERATURE:

NAVSHIPS 93645(A): Technical Manual for Impedance Matching Network CU-837/URC.

NAVSHIPS 93286: Technical Manual for Antenna Coupler Group AN/SRA-22.

TUBE, CRYSTAL AND/OR SEMI-CONDUCTOR DATA:

TUBES: Not required.

CRYSTALS: Not required.

SEMI-CONDUCTORS: Not required.

SHIPPING DATA

PKGS	VOLUME (CU FT)	WEIGHT (LBS)
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1.2 CU-837/URC: 2

PROCUREMENT DATA

PROCURING SERVICE: USN
SPEC &/OR DWG:

DESIGN COG: USN, BuShips

CONTRACTOR	LOCATION	CONTRACT OR ORDER NO.	APPROX. UNIT COST
Piqua Engineering, Inc.	Piqua, Ohio	N0bsr 87008, 31 July 1961	
Collins Radio Company	Cedar Rapids, Iowa	N0bsr 81220, 6 April 1960	\$62.00