

## SUMMARY OF DATA

**PURPOSE**

Medium power HF communications transmitter for use in submarines to replace Type 55M.

**TYPE OF TRANSMISSION**

C.W.

**FREQUENCY RANGE**

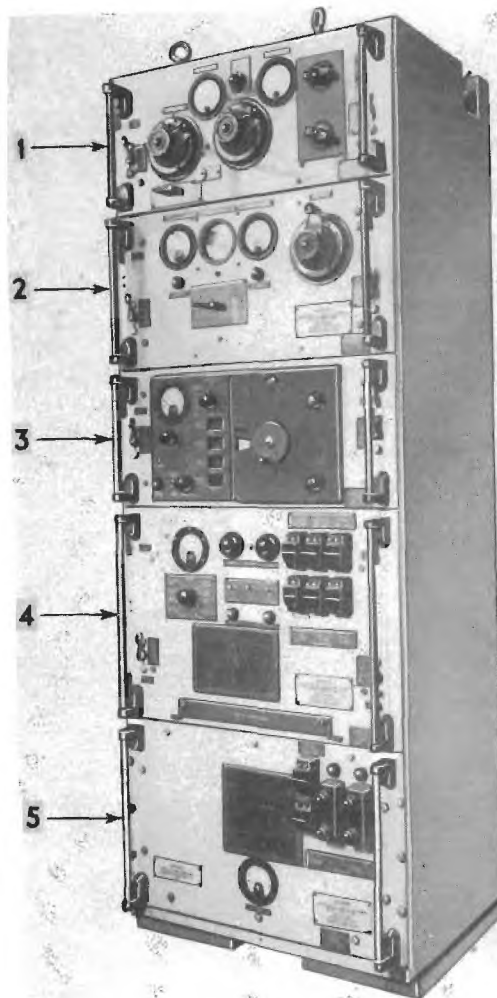
1.5-24 MHz in four bands.

**BRIEF DESCRIPTION**

A variable frequency master oscillator covers the range 1.5-3 MHz with an accuracy of .02%. Frequency multipliers are used for higher frequencies up to 25 MHz. In addition, the transmitter may be crystal controlled on nine spot frequencies in the range 2-24 MHz with no restriction on the distribution of these frequencies within the band. The basic crystal frequencies are between 2 and 4 MHz. The anode, screen and bias power supplies to the oscillator and power amplifier stages are provided with comprehensive regulation and absorption systems. The power output is 400 watts into Aerial Outfit ALE.

**MAJOR UNITS**

	Patt. No.	Description
1.	62155	Aerial Tuning Drawer, 42A
2.	62156	Power Amplifier Drawer
3.	62157	Master Oscillator Drawer
4.	62158	Power Supply Drawer, Design 6
5.	62159	Power Supply Drawer, Design 7
6.	62160	Cabinet, Design 79
7.	63296	Switch Unit, Design 80, Aerial Changeover

**PHYSICAL DATA**

The five drawers are housed in the Cabinet, Design 79, the overall dimensions of which are as follows:-

<u>Height</u>	<u>Width</u>	<u>Depth</u>	<u>Weight</u>
5 ft 1½ in.	1 ft 11 in.	1 ft 8 in.	857 lb

TYPE 623

**POWER REQUIREMENTS**

115 V 1 ∅ 60 Hz or 230 V 1 ∅ 50 Hz 2.3 kW and 220 V d.c. 3A

**HEAT DISSIPATION IN OFFICE**

2.5 kw (approx.)

**AERIAL SYSTEM**

The transmitter is designed for operation with Aerial Outfits ALE, AWJ, AW0 and wire aerials.

**HANDBOOK**

BR 2181

**ESTABLISHMENT LIST**

E1100

**INSTALLATION SPECIFICATION**

B792



TRANSMITTER TYPE 623 - FIG. 4.9