

The TMC Antenna Tuning Unit, Model TAC

The TMC Antenna Tuning Unit, Model TAC, was specially designed for operation with the BC-610 or T-368 ()/URT Transmitter, but may also be used to match any transmitter with a nominal output impedance of 70 ohms to balanced or unbalanced loads ranging from 50 to 1200 ohms. The unit covers the basic frequency range of 2 to 18 Mcs. with very little insertion loss, but provisions have been made to cover an extended range of 1.5 to 30 Mcs. unbalanced and 1.7 to 30 Mcs. balanced loads at slightly lower efficiencies.

All components of the TAC are insulated from each other to withstand any possible high voltage that may occur due to open antennas or improper impedance matching. All switches are insulated to prevent any RF on the front panel. Insulated terminals at the rear center of the unit provide the necessary output connections and are spaced to accommodate an open line antenna.

The Model TAC consists of a continuously-variable contact type inductance to match any output load. Switched taps control the loading of the transmitter for obtaining frequency changes. The variable tuning capacitor is of the split stator type with spacing sufficient to prevent flashover when the unit is unloaded.

The entire unit is housed in a steel case with a removable cover so designed that connections to its terminals may be made with a minimum of difficulty. Provision has been made for front panel ammeters to read the antenna current, and to properly balance the antenna load. The TAC is a replacement for the BC-939 Antenna Tuner and is mounted in the same manner.

TECHNICAL SPECIFICATIONS

BASIC FREQUENCY RANGE: 2 - 30 megacycles.

EXTENDED FREQUENCY RANGE: Balanced, 1.8 - 30 megacycles.
Unbalanced, 1.5 - 30 megacycles.

INPUT IMPEDANCE: Nominally 75 ohms unbalanced.

OUTPUT IMPEDANCE: 50 - 1200 ohms, balanced or unbalanced.

RF POWER: 1000 Watts input.

SIZE: 9" x 14-1/2" x 22".

MOUNTING CENTERS: 10-1/2" x 16-3/8".

WEIGHT: 59 lbs. net, 120 lbs. packed for export.

CONTROLS:

1. Coupling
2. Bal/Unbal
3. Band Switch
4. Load Adjust
5. Tuning
6. Gnd/Ungnd

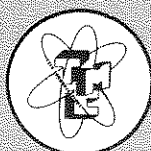
COMPONENTS AND CONSTRUCTION: Equipment is manufactured in accordance with JAN/MIL specifications wherever practicable.

THE TECHNICAL MATERIEL CORPORATION

700 FENIMORE ROAD

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COMMUNICATION ENGINEERS

IN CANADA:
TMC (CANADA) LTD.
OTTAWA, ONTARIO