

General Information

1.1

Introduction

This manual contains the information required for the installation and operation of the automatic antenna tuner. Refer to the RAT1000-MS technical manual for detailed technical and servicing information.

1.2

General Description

The automatic antenna tuner is designed to automatically match the 50-ohm output of the transceiver into a variety of antennas for mobile and base-station applications over the frequency range of 2-30 MHz. All operation, including network tuning and VSWR monitoring, is fully automatic and microprocessor controlled. Tuning time is typically three seconds.

The automatic antenna tuner is designed to provide tactical security by permitting remote location of the antenna up to 200 feet from the associated transceiver. Since a radiating antenna is always a potential target under combat conditions, the transceiver and operator can be protected at a safe distance from the antenna.

1.3

Physical Description

The automatic antenna tuner is designed for continuous operation under the most severe environmental conditions. It is contained in a rugged, waterproof, metal case which should be mounted as close as possible to the radiating part of the antenna.

1.4

Technical Specifications

Table 1-1 lists the technical specifications of the automatic antenna tuner.