

PAC 10-70-B AMPLIFIER

INSTALLATION

The output of the transceiver should be connected to the input of the amplifier with a short piece of coax with a quality of at least RG-8. If the DC power cables are extended, be sure to use cable of the same size to avoid voltage drops across the power leads. The unit is tuned for the center of the frequency band at the factory, unless otherwise specified when purchasing order is received. If input SWR shows higher than 1.5:1, check the interconnecting cables between the amplifier and the transceiver for proper length. Attempt to use a physical length that will give you a 1/4 or 1/2 wavelength for best efficiency.

DESCRIPTION OF UNIT

This unit uses modern solid state devices and stripline techniques to achieve a broadband, high reliability power amplifier. When the unit is turned off, the drive input will be sent straight through the amplifier with no measurable effect. When the unit is turned on, the RF sensing circuit in the amplifier will key the transmit relay when it senses an input signal and reroute the RF drive to the power transistor circuit for amplifying. An RCA phono jack is supplied at the rear of the unit to allow the XMT relay to be hard keyed in the event that the input signal is too weak to activate the RF sensing circuit. This external keying jack requires a positive voltage anywhere in the range of 1 to 14 volts. Current drawn through this hard key jack is less than 1/2 amps. Input SWR should be better than 1.5:1 for effective performance.

SPECIFICATIONS

- POWER OUTPUT 70 Watts, nominal with 10 Watts of drive
- POWER INPUT 5 - 15 Watts drive
- FREQUENCY RANGE 150 - 174 MHz
- IMPEDANCE..... 50 Ohms
- SUPPLY VOLTAGE 13.8 VDC
- CONNECTORS SO-239 UHF Type
- FUSE 15 Amp
- OPERATING MODES FM, CW