

# RF-2601

1 kW Fast-Tune Antenna

The RF-2601 is a ruggedized, ship-qualified antenna coupler, ideal for scenarios where fast-frequency changes are necessary such as those incorporating Automatic Link Establishment. This 1 kW Fast-Tune Antenna provides continuous operation in severe environments for vehicular, transportable, shipboard and fixed-station applications. The RF-2601 efficiently and rapidly matches the output of 1 kW transmitters and transceivers to a wide variety of whip, dipole and long-wire antennas over the 1.6 to 30 MHz frequency range. The antenna coupler features fast transmitter tuning technologies with minimized emissions. The coupler is designed for direct interface with the RF-1140 1 kW HF-LSB Transmitter Series and RF-1145 1 kW Transceiver System, and supports remote operations up to 500 feet from a transmitter or transceiver.

**ELECTRICAL**

<b>Frequency Range</b>	1.6 to 30 MHz
<b>RF Power</b>	2 to 30 MHz: 1 kW PEP/Average 1.6 to 2 MHz: 1 kW PEP/500 watts Average
<b>Tuning Capability</b>	1.6 to 30 MHz: 35 foot whip, long wire, dipole, and broadband antennas (The RF-625A Long-Wire Adapter is necessary for use with long wires and dipoles)  2.0 to 30 MHz: 16 to 24 foot mobile and shelter-mounted whips
<b>Tuning Accuracy</b>	VSWR of 1.2:1 typical
<b>Tuning Time</b>	Memory: 75 milliseconds to 125 milliseconds Learn: 2-3 seconds typical, 10 seconds maximum
<b>Tune Power Requirements</b>	25 to 280 watts
<b>Circuit Protection</b>	Protection from high VSWR, high temperature, low pressurization, RF over-voltage, control line lightning surges, RF path lightning surges
<b>Coupler Bypass</b>	Automatically in fault mode Manually, with RF-2602 Status Monitor
<b>Remote Capability</b>	Up to 500 feet separation between transmitter and coupler with the use of 1/2 inch or 7/8 inch foam dielectric coaxial cable  Up to 250 feet with the use of RG-213/U Coaxial Cable
