

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

Frequency Range	1.6 to 30 MHz
RF Power	2 to 30 MHz: 1 kW PEP/Average 1.6 to 2 MHz: 1 kW PEP/500 watts Average
Tuning Capability	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
Tuning Accuracy	VSWR of 1.2:1 typical
Tuning Time	Memory: 75 milliseconds to 125 milliseconds Learn: 2-3 seconds typical, 10 seconds maximum
Tune Power Requirements	25 to 280 watts
Circuit Protection	Protection from high VSWR, high temperature, low pressurization, RF over-voltage, control line lightning surges, RF path lightning surges
Coupler Bypass	Automatically in fault mode Manually, with RF-2602 Status Monitor
Remote Capability	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

RF-2601 1 kW Fast-Tune HF Antenna Coupler

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