



FTN6074 1Kw Antenna Coupler

GENERAL DESCRIPTION

The FTN6074 is a fast tune automatic antenna coupler that matches the output of the Micom-RM1200 1 Kw HF radio system to a wide variety of whip and long-wire antennas.

The coupler matches the antenna impedance to the 50 ohm output impedance of the radio system, with a nominal VSWR of 1.5:1 in the 1.6 to 30 MHz frequency range. A microprocessor circuit checks the antenna matching each time the channel is changed and then automatically switches inductors and capacitors in or out. The tuning data for a given channel is stored in a memory and kept as long as the FTN6074 is on. The next time the channel is used, the stored tuning data for that channel is used, considerably reducing the tuning time.

The coupler is designed to support both conventional and automatic link establishment (ALE) operation and is housed in a weather resistant aluminum case, and is designed to withstand severe weather conditions, like those encountered in shipboard applications.

The FTN6074 is supplied with a one hundred foot coax and a one hundred foot control cable. Cables in other lengths are also available.



SPECIFICATIONS

Model number:..... FTN6074

Power: 1000 W

Tuning Frequency Range and Antenna Matching

Capability:

Max VSWR 2:1 for the following antennas:

10 meter (33 ft.) Whip at 1.6-30MHz

6 meter (20 ft.) Whip at 2.5-30MHz

7-25m (23-82 ft.) length and 7-10m (23-33 ft.) height Wire
antennas at 1.6-30 Mhz

Tuning time: Memory tuning 250 M Sec

Environmental: Meets the MIL-STD-810F Test methods:

501.4, 502.4:

Operating temperature range: -20°C to $+50^{\circ}\text{C}$

Storage temperature: -40°C to $+70^{\circ}\text{C}$

509.4Salt drench: Test 96 Hrs

506.4.....Rain: 1.7 mm/min rain for
40 minutes.

507.4.....Humidity: 95%@ 50°C

Dimensions: 19.5 cm high, 34 cm wide, 56 cm long

7.7 in. high, 13.4 in. wide, 22 in. long

Weight: 19.5 k (43 lb)

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Mobat USA

1721 West Paul Dirac Drive

Tallahassee, FL 32310-3708

800-682-3481