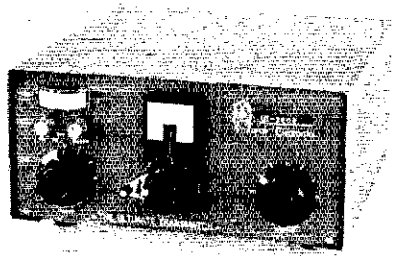


The Murch UT-2000 Ultimate Transmatch



THE MURCH ELECTRONICS UT-2000 is a commercially made version of the Ultimate Transmatch that appeared in July, 1970, *QST* and also in the 1972 edition of the ARRL *Handbook*. The two circuits are identical, but that is where the similarity ends. One has to know the radio retail business rather well to realize what is so different about the UT-2000. Being unable to obtain roller inductors or variable capacitors that met the needs for the unit, Murch decided to manufacture both items. One could say that this is a case of real Yankee ingenuity. Murch has informed us that at some future date the capacitors and inductor will be sold as separate items for amateurs wishing to "roll their own."

The UT-2000 is designed for coax-to-coax or random-wire feed. If balanced feed is desired, a balun is required. The Transmatch covers 3.5 to 30 MHz continuously and includes the MARS frequencies. It should be pointed out the Ultimate circuit requires no band switching.

The UT-2000 shown here was tested at 2-kW PEP on all amateur bands (80 through 10 meters), with both high- and low-impedance loads. In no instance was any difficulty encountered with matching or component breakdown. An end-fed wire that provided an extremely high impedance was easily matched on all bands. The instruction sheet isn't too clear about matching settings of the controls. When using the Ultimate circuit, several different settings of the capacitors and inductor

will provide matched conditions for a given antenna load. One should always use the adjustment that provides the greatest amount of capacitance on the input capacitor and the least amount of coil inductance. This provides the best harmonic attenuation.

Also included in the unit is a Monimatch-type SWR indicator. It uses a 1-mA meter for the indicator and is equipped with a switch for reading forward and reflected currents. — *WHICP*

Murch Electronics UT-2000 Transmatch

Dimensions (HWD) and Weight:

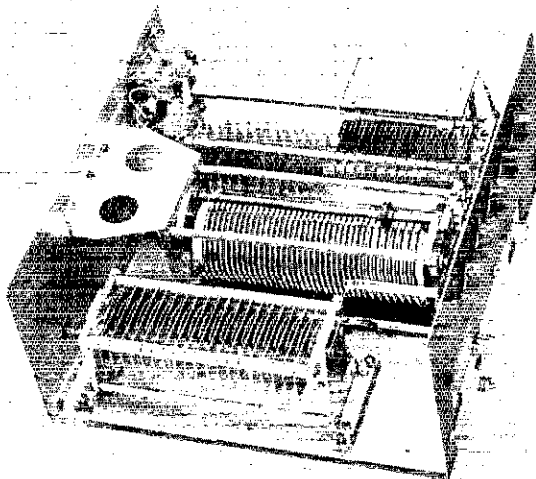
6 × 12 × 12 inches, 8-1/2 pounds.

Power rating: 2 kW.

Frequency Range: 3.5 through 29.7 MHz.

Price Class: \$120.

Manufacturer: Murch Electronics, Box 35,
Franklin, ME 04634.



The input capacitor is at the top. At the center is the roller inductor with the output capacitor at the bottom. The pickup sections of the Monimatch are mounted on the insulated board clamped to the top of the input variable capacitor.