

Low Frequency Antenna Multicoupler Model LMC-32



TMC
Technical
Bulletin

104034



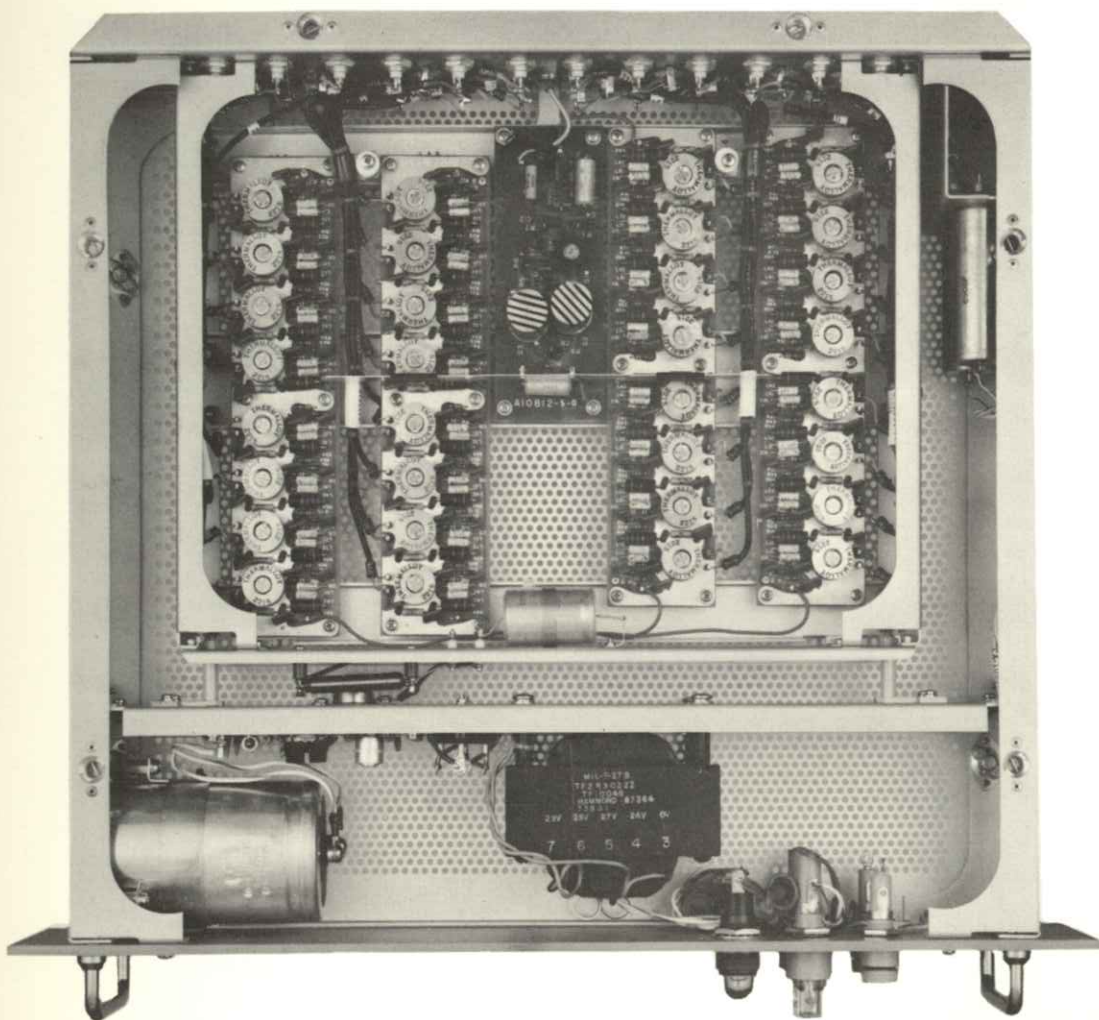
Thirty-Two Outputs at L/F (10KHz to 2MHz)

The Thirty-Two Output Low Frequency Antenna Multicoupler, Model LMC-32, is a broadband coupling unit, used for coupling one to thirty-two low frequency communications receivers to one common antenna. The multicoupler will provide a nominal 2db gain from the antenna to any receiver, with a wide dynamic range and low noise characteristic over the frequency range from 10KHz to 2MHz. The equipment has been designed to provide excellent isolation from receiver to receiver and from each receiver to the antenna. The Multicoupler is a solid state, transistor-type design.



TECHNICAL SPECIFICATIONS

Number of Outputs:	32
Frequency Range:	10KHz to 2MHz
Input and Output Impedance:	75 ohms with a VSWR better than 1.5:1
Insertion Gain:	2dB \pm 0.5dB
Desensitization:	100 uv signal is compressed by 3dB maximum when a 7V peak-to-peak signal between 10KHz and 2MHz is applied simultaneously.
Noise Figure:	12dB max. 10KHz to 100KHz 9dB max. 100KHz to 2MHz
Intermodulation:	With any two 0.5v RMS (referred to 75 ohms) signals applied at the antenna input, second and third order products are better than 65dB below 0.5v RMS (referred to 75 ohms).
Isolation:	-40dB, minimum, output-to-output -55dB, minimum, output-to-input.
Line Filters:	-40dB minimum attenuation between 10KHz to 150 MHz.
Power Supply:	115 VAC \pm 10% 48/62 Hz; power consumption approximately 100 watts.
Dimensions:	Width 19 inches. Height 3½ inches. Depth 16 inches.
Weight:	17 pounds approximately.
MTBF:	20,000 hours as per RADC reliability handbook.
Temperature Range:	Class 4 military requirements Operating: 0° to +50°C Non-operating: -62° to +75°C.
Humidity:	Operational up to 95%.



Model LMC-32

Top cover removed

Loose Items Supplied:

Power Cable Assembly
Technical Manual

CA 10505
1N8034

1 each
1 each

TMC (Canada) Limited

RR NO. 5, Ottawa, Ontario, K1G 3N3 Telephone (613) 822-0244

CABLE: TEPEI-OTTAWA TELEEX: 053-4146

SUBSIDIARY OF THE TECHNICAL MATERIEL CORPORATION
Mamaroneck, New York

