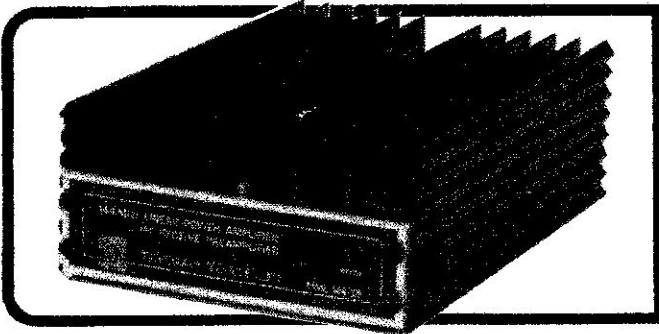


MICROWAVE MODULES LTD

MML 144/25, 25 WATT 144 MHz LINEAR POWER AMPLIFIER & LOW-NOISE RECEIVE PREAMP



- RUGGED 65W DISSIPATION PA TRANSISTOR
- ULTRA LOW-NOISE RECEIVE PREAMPLIFIER
- EQUIPPED WITH RF VOX AND MANUAL OVERRIDE
- L.E.D. STATUS LIGHTS FOR POWER & TRANSMIT

SPECIFICATION

LINEAR AMPLIFIER

Power profile	: 25 watts typical output for 3 watts input
Frequency bandwidth	: 144-148 MHz at -1dB
Power requirements	: 13.8 volts at 2.8 amps for 25 watts output
Quiescent current	: 75mA nominal at 13.8 volts

RECEIVE PREAMP

Overall gain	: 10 dB typical
Overall noise figure	: Better than 2.5 dB
Frequency bandwidth	: 144-148 MHz at -1 dB
Receive current	: 50mA nominal at 13.8 volts

GENERAL

RF connectors	: 50 ohm BNC	Weight	: 900g (2lb)
Power connector	: 5 pin DIN socket	Overall size	: 185 x 115 x 55 mm (7 1/4 x 4 1/2 x 2 3/16")

DESCRIPTION

This 144 MHz solid state linear power amplifier, MML 144/25, is intended for use with any existing 144 MHz equipment having an output power of 5 watts. When used in conjunction with such a drive source, this linear amplifier will provide a power output of 30 watts, and the incorporation of a low noise receive preamplifier will provide an improved overall system noise figure.

The inclusions of the latest state of the art power transistor (rated at 65W dissipation) guarantees highly reliable and ultra-linear performance, which make the unit ideal for all modes of operation, (SSB, FM, AM, CW and SSTV). The PA transistor is thermally tracked against ambient temperature variation and operational temperature rise.

By means of an internal RF vox circuit the linear will automatically switch onto transmit when 144 MHz drive is applied to the input socket. However, this facility may be overridden by the application of an earth to pin 1 of the 5 pin DIN power socket located on the rear panel. This may be achieved by connection to the transceiver PTT switching line.

All RF circuitry is constructed on high quality double sided glass-fibre PC board and protection is included against reverse polarity.

The unit is housed in a highly durable, extruded aluminium enclosure, RF input and output sockets are located on the rear panel, together with the 5 pin power socket.

The unit is supplied with a 5 pin power plug, and plugs for both input and output connectors.

MICROWAVE MODULES
BROOKFIELD DRIVE, AINTREE, LIVERPOOL L9 7AN, ENGLAND
Telephone: 051-523 4011 Telex 628608 MICRO G

