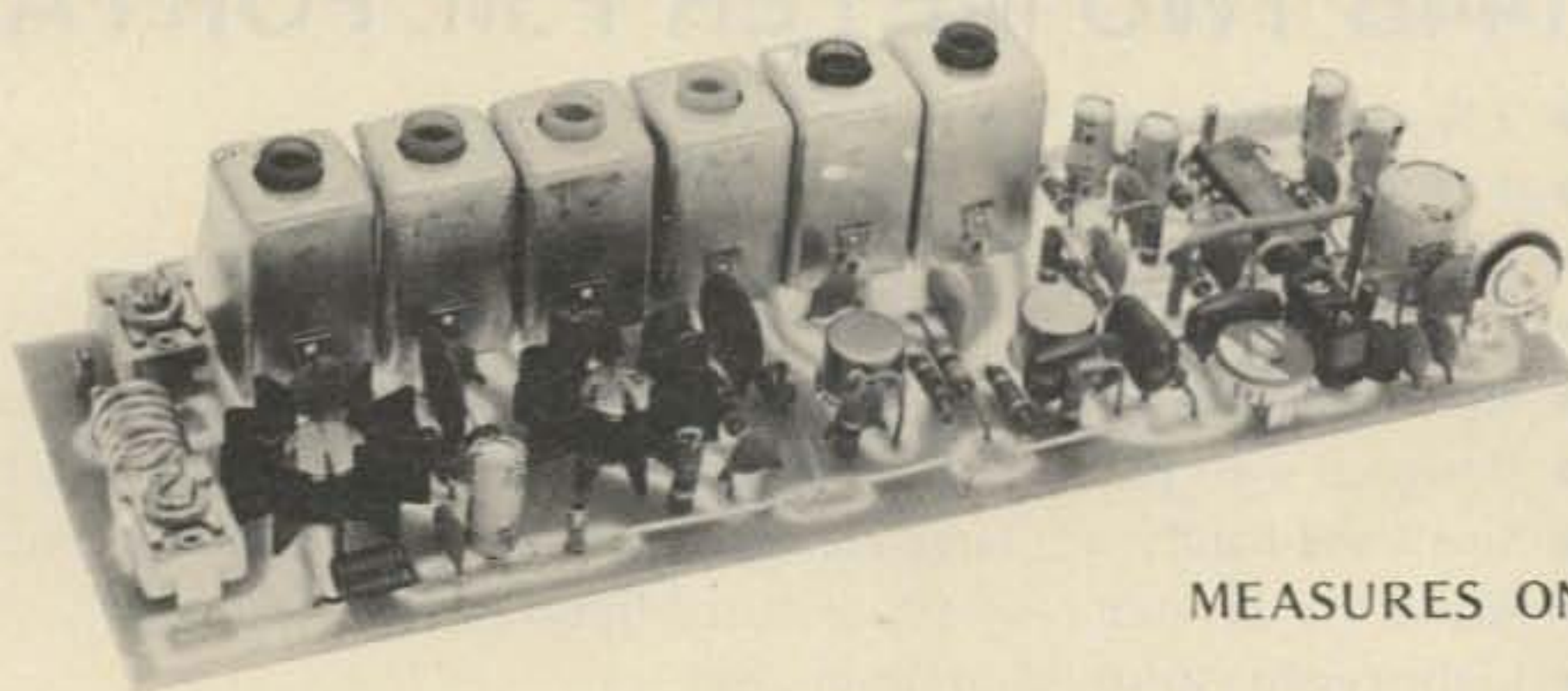


TX-50, TX-144B and TX-220B TRANSMITTER KITS

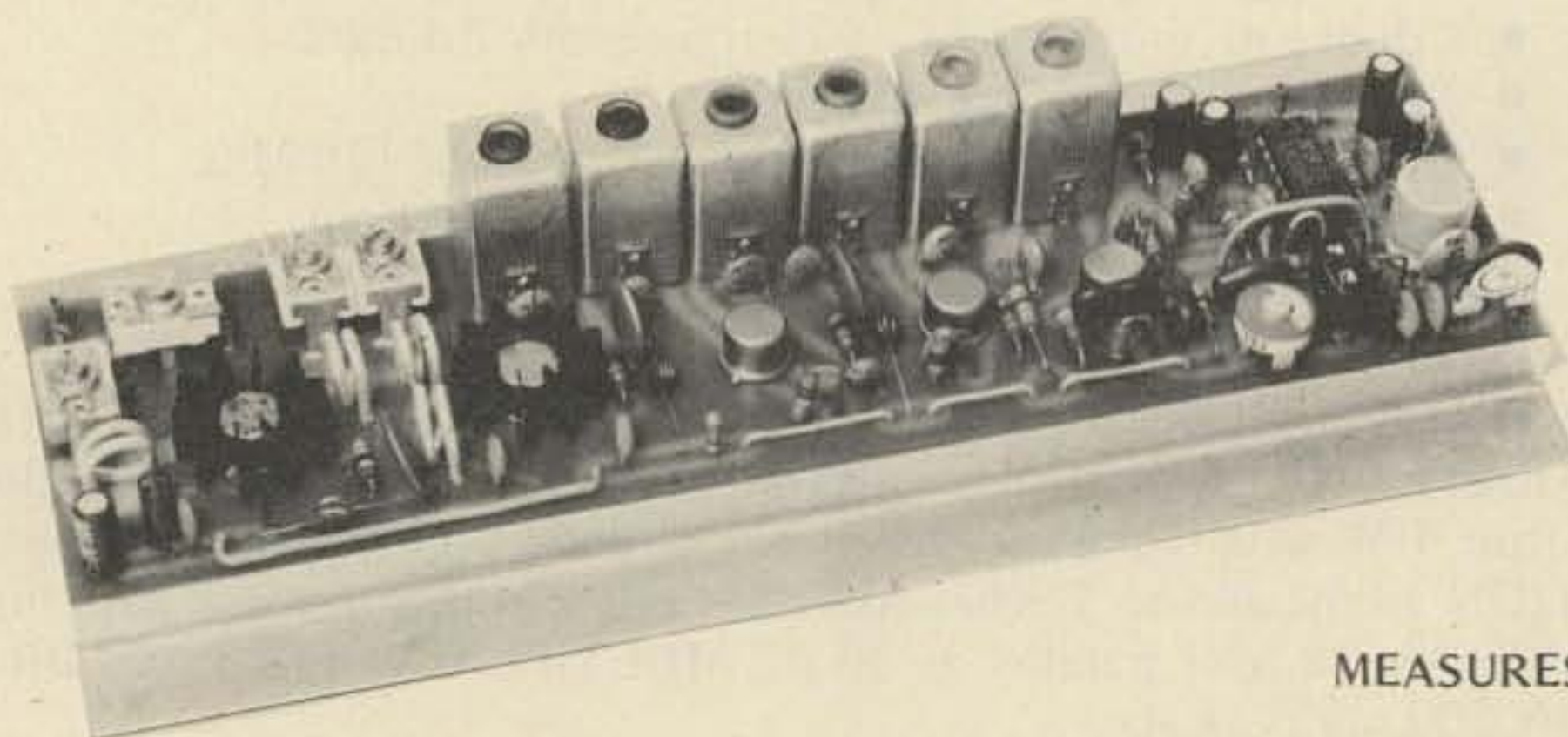


MEASURES ONLY 2" X 6" X 1"

A one watt exciter using four RF transistors, two diodes, and one integrated circuit. The RF transistors are operating well below their ratings allowing long keying periods without damage. The exciter may be used alone as a transmitter or with our PA Series amplifiers for a 15 or 25 watt station. Some of the features are:

- Nominal output 1½ watts
- Deviation adjusted to 10KHz
- IC audio with clipping and active filter
- All spurious outputs down 30db or more
- Temperature compensation crystal trimmer
- Zener regulated oscillator
- Uses readily available 12, 13 or 18 MHz crystals (13MHz for 50, 18MHz for 220)
- All tuning coils prewound
- Predrilled and tinned G-10 Circuit board
- Easily built and tuned in one evening
- Multi-channel option available with addition of CD-2 crystal deck
- Will easily drive our 15 and 25 watt amplifiers to full output

TX-432 TRANSMITTER KIT



MEASURES ONLY 2" X 8" X 1"

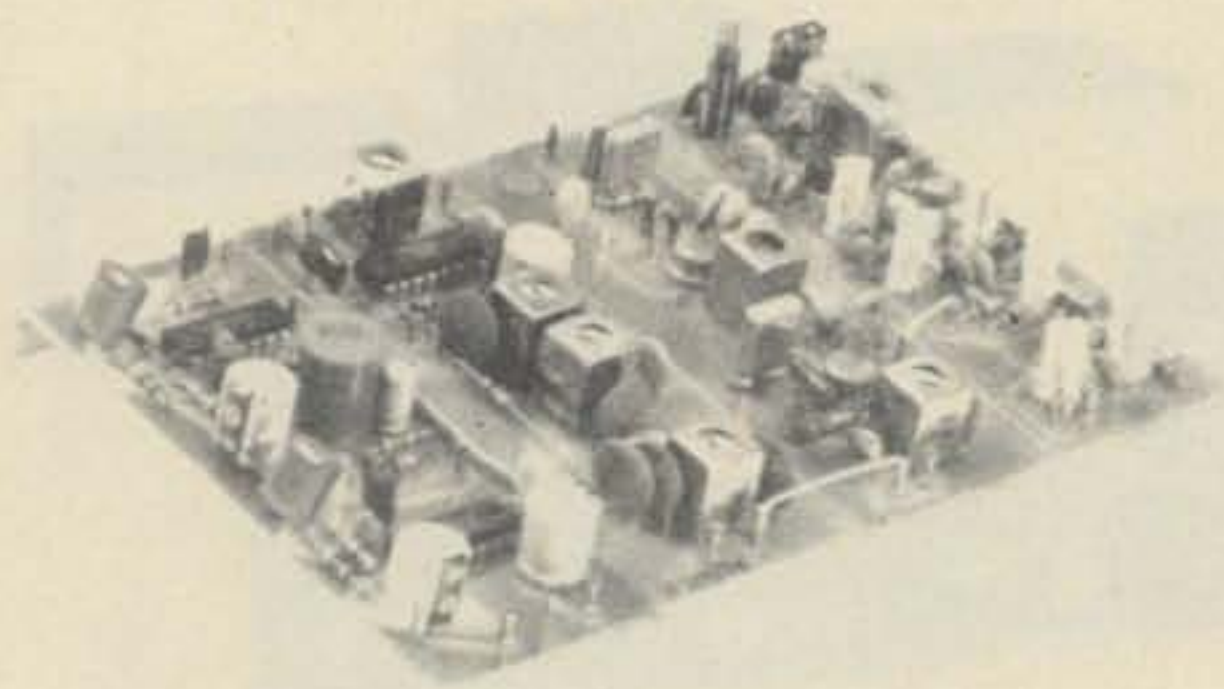
A one watt exciter using five RF transistors, two diodes, and one integrated circuit. The RF transistors are operating well below their ratings allowing long keying periods without damage. The exciter may be used alone as a transmitter or with our PA432/10 amplifier for a 10 watt station. Some of the features are:

- Nominal output 1 watt
- Deviation adjustable to ± 10 KHz
- IC audio with clipping and active filter
- All spurious outputs down 30db or more
- Temperature compensation crystal trimmer
- Zener regulated oscillator
- Uses readily available 18MHz crystals
- All tuning coils prewound
- Predrilled and tinned G-10 Circuit board
- Easily built and tuned in one evening
- Multi-channel option available with addition of CD-2 crystal deck
- Will easily drive our 10 watt amplifier to full output

Vhf engineering

320 WATER ST. / BINGHAMTON, N.Y. 13901 / Phone 607-723-9574

RECEIVER KITS RX-28C, RX-50C, RX-144C, RX-220C RX-432C



INEXPENSIVE AND UNIQUE MODULAR CONCEPT

- Performance equal to commercial equipment
- Monitor receivers
- Repeaters: using our transmitter, 15 or 25 watt amplifier and COR modules
- 10 channel auto-scan receivers: using our SC-1 scanner kit and CD-1 crystal deck
- Tranceivers using our transmitter module

All Receiver kits are dual conversion with squelch and COR output. They may be tuned to any 4 Mhz segment between 30 and 230 Mhz. (Coil data is supplied for 30-60, 144-170 and 220-230 Mhz bands.)

RX-144C SPECIFICATIONS: SENSITIVITY .3uV for 20db quieting. SQUELCH THRESHOLD .2uV. AUDIO OUTPUT 2 watts. STABILITY better than $\pm .002$. IMAGE REJECTION 60db. SPURIOUS REJECTION greater than 60db. IF REJECTION 80db. FIRST IF 10.7 Mhz. SECOND IF 455 Khz. BANDWIDTH 15 Khz at 3db, 60 Khz at 30db (40 Khz with optional 4 pole filter). CRYSTAL 45 Mhz parallel at 20pf (HC/25U holder).

RX 144C SCHEMATIC

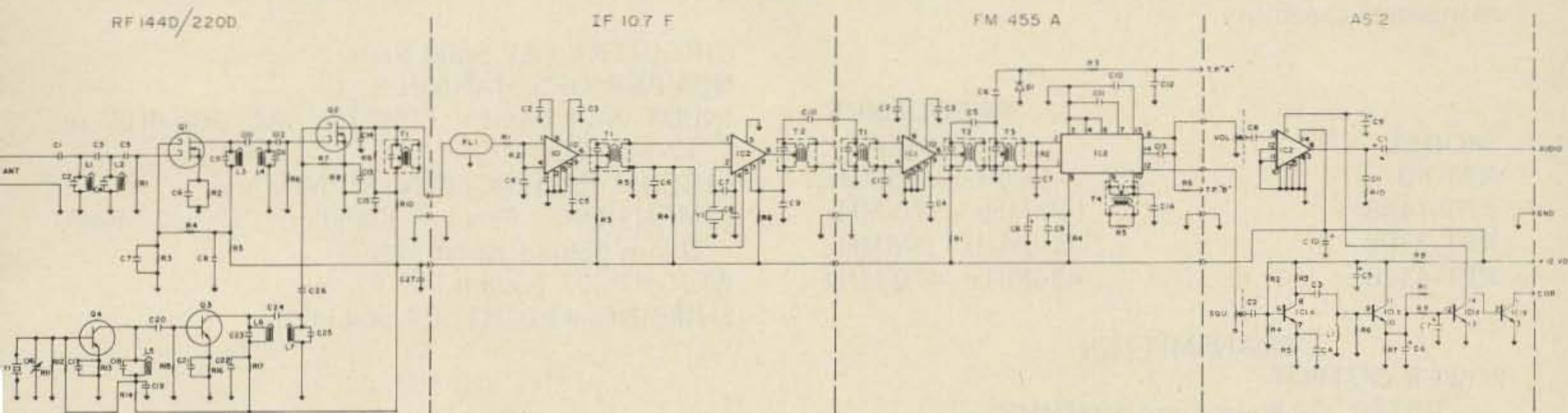


IMAGE REJECTION
ADJACENT CHANNEL REJECTION
AT 30 KHZ

RX50	RX144C
60 DB	60 DB
40 DB	40 DB
*	*

*NOTE: RX50 & RX144C will give adjacent channel rejection of 70 DB with the optional 4 pole filter RXCF

RF-50C

A high gain low noise front end using a J FET RF stage and dual gate zener protected MCS FET mixer. The coils tune 40-60 MHz with the Capacitors normally supplied. 30-45 MHz coverage is available on request. The RF 50 makes an excellent low band converter (See our Model C-50)

RF-144A/F RF-220A/F

A high gain low noise front end using dual gate zener protected MOS-Fets. Nominal 40DB gain. (slightly less on 220) Makes an excellent converter (see our models C-144 and C-220).

IF 10.7F

A 10.7 MHz amplifier and 455 KHz converter using two IC's. A crystal filter insures excellent image rejection. Over-all gain is better than 50DB. The 11.155 MHz crystal is supplied with the kit.

FM455A

A 455 KHz IF amplifier, limiter, FM detector, and audio preamplifier using two IC's. Double IF cans insure a sharp IF response. Audio limiting starts at 20 microvolts and a 5 KHz deviation signal will provide over 1 volt output. Includes a level detection diode for signal strength test point or tuning indicator.

AS2

An IC audio amplifier with squelch. An input of .1 volts will drive a 4-8 ohm speaker to two watts. The noise operated squelch circuit gates the audio amplifier to provide positive squelch action.

Each module measures 1½ X 4. The overall dimensions are 4 X 6.

Vhf engineering

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