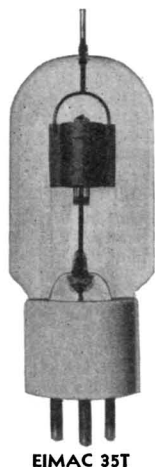


EIMAC

PRESENTS the 35T

High frequency oscillator, r.f. amplifier, doubler, and Class "B" modulator.



Class "C" output up to
112 watts

Class "B" output (2 tubes)
150 watts

● Tantalum grid and plate.
(no "getter")

● No internal insulators.

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cold, nervous fear. Her tightly-clasped hands felt her heart racing. The second hand on the tiny wrist watch marched inexorably on—on. Fifteen seconds past.

The din was horrible.

"Everybody on the band is right here," she whispered, pressing her hands to her forehead.

There was no use shifting the tuning. It was set where it should be, on the low-frequency side of the University's zero beat. She had checked it too often. It didn't vary the width of a pencil mark on over ten feet of dial spread.

Sudden doubt assailed her. Had she said three o'clock *his* time or *her* time?

"Oh, goodness!" she whispered. "What was it? I just know I said—"

Two new signals started up at that point calling PAOQL. Loud. Oh, so terribly loud!

"I just know I said *my* time."

And even if Jug was sending, could she hear him? The din was steady, a chorus of chirps, rattles, and pinging crystal notes, never ending and seemingly growing louder.

Thirty-five seconds past.

"He forgot," Ann murmured, a crushed feeling coming over her. Her throat began to ache—ache—each a stab that she was helpless to overcome.

"He forgot." Her lips formed the words, but no sound came.

The grandfather's clock on the landing of the stairs clucked with august majesty. It had seen many a clock come and go in its hundred-odd years of timekeeping and it knew a thing or two about keeping time that was not in the books. Its polished pendulum moved with stateliness and precision.

With calm solemnity it willed now to strike.

A mellow chord rang from it. Another. Another.

The top of the Duncan Phyfe table upon which Ann's elbows rested suddenly vibrated as a ringing, crystal signal with an organ-pipe undertone tore from the big dynamic. Behind it was the power equivalent to ten kilowatts and it shook the leaded window panes.

Ann's heart jerked.

She made a faint little sound. Desperate with excitement, she grasped the gold inlay pencil and began to scribble furiously:

"To a lady with red hair—this is Jug—I am proud of you—save the X for me—ARSK"

Ann caught the paper to her and hugged it fiercely. She closed her eyes in a slow sweep of the long lashes and her lips moved in what seemed to be a little prayer.

"Oh, Jug!" she whispered. "I will! I will!"

Laboratory Beat Oscillator and Signal Generator

(Continued from page 47)

A low-pass filter is provided in the plate circuit of the 53. It is essential that this filter be a good one, for if any of the fundamental oscillator component gets through to the power amplifier distortion will result. As it is, harmonic distortion is not detectable by ordinary means (such as in-

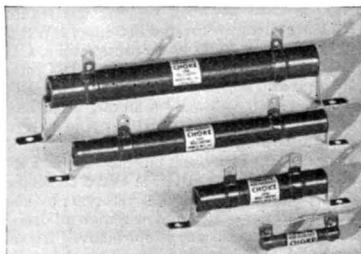
(Continued on page 110)

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transmitters

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