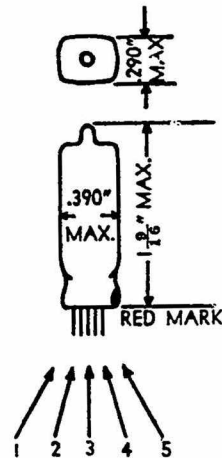


PENTODE SUB-MINIATURE POWER AMPLIFIER

COATED FILAMENT

The 2E36 is a pentode designed for use as a power amplifier in radio receivers and other portable equipment where small size, light weight and low battery drain are important. The 2E36 is designed for plug-in use with a socket.



RATINGS

Filament Voltage	1.25	volts
Filament Current	30	ma
Maximum Plate Voltage	45	volts
Maximum Screen Voltage	45	volts
Maximum Cathode Current	1.0	ma

T2x3 Glass Bulb

- 1—Filament Pos. and Suppressor
- 2—Grid #1
- 3—Filament Neg.
- 4—Grid #2
- 5—Plate

DIRECT INTERELECTRODE CAPACITANCES†

Grid to Plate	0.2 max.	$\mu\mu\text{f}$
Input	2.7	$\mu\mu\text{f}$
Output	5.7	$\mu\mu\text{f}$

0.016" dia. pins. 0.05" center to center spacing. Pins identified by red mark over plate pin. Pin length 0.200".

TYPICAL CLASS A₁ AMPLIFIER OPERATION AND CHARACTERISTICS

Plate Voltage	22.5	45	volts
Screen Voltage	22.5	45	volts
Control Grid Voltage	0*	-1.25	volts
Plate Current	0.27	0.45	ma
Screen Current	0.07	0.11	ma
Transconductance	385	500	μmhos
Plate Resistance	0.22	0.25	megohm
Load Resistance	0.15	0.10	megohm
Distortion	10	10	per cent
Power Output	1.2	6	mw

* Grid resistance = 5 megohms.

† With close fitting capacitance adapter shield connected to negative filament.

from RMA release # 450, Nov. 10, 1945

October 15, 1945

Preliminary Data CS-2263

RADIO RECEIVING TUBE DIVISION

NEWTON, MASS.

RAYTHEON MANUFACTURING COMPANY