



TRIODE
DETECTOR OR AMPLIFIER
Heater Type Glass Bulb

The 37 is a triode type amplifier tube designed for service as a detector or amplifier in storage battery or a-c operated receivers.

RATINGS

Heater Voltage (a-c or d-c)	6.3	volts
Heater Current	0.3	amp
Maximum Plate Voltage	250	volts

BOTTOM VIEW OF SOCKET

6.3	volts
0.3	amp
250	volts

DIRECT INTERELECTRODE CAPACITANCES

Grid to Plate	2.0	μf
Input	3.5	μf
Output	2.2	μf

AMPLIFIER - CLASS A

Plate Voltage	90	135	180	250	volts
Grid Bias	-6	-9	-13.5	-18	volts
Amplification Factor	9.2	9.2	9.2	9.2	
Plate Resistance	11500	10000	10200	8400	ohms
Transconductance	800	925	900	1100	μmhos
Plate Current	2.5	4.1	4.3	7.5	ma

If a grid resistor is used, its value should not exceed 1 megohm.

DETECTOR - BIASED TYPE

Plate Voltage	90	125	180	250	volts
Grid Bias (approximate)	-10	-15	-20	-28	volts
Plate Current			Adjusted to 0.2 ma.		with no signal

DETECTOR - GRID LEAK TYPE

Plate Voltage	45	volts
Grid	Return to Cathode	
Grid Leak Resistance	1 to 5	megohms
Grid Condenser	0.00025	μf

The voltage between heater and cathode should be kept as low as possible where they are not directly connected.

