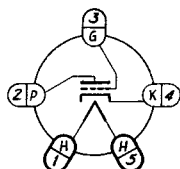


TRIODE
DETECTOR OR AMPLIFIER
Heater Type Glass Bulb

The 27 is a triode type amplifier tube designed for service as a detector or amplifier in a-c operated receivers.

RATINGS

Heater Voltage (a-c or d-c)
Heater Current
Maximum Plate Voltage



BOTTOM VIEW OF SOCKET

2.5 volts
1.75 amp
250 volts

DIRECT INTERELECTRODE CAPACITANCES

Grid to Plate 3.3 μf
Input 3.5 μf
Output 3.0 μf

AMPLIFIER - CLASS A

Plate Voltage	90	135	180	250	volts
Grid Bias	-6	-9	-13.5	-21	volts
Amplification Factor	9	9	9	9	
Plate Resistance	11000	9000	9000	9250	ohms
Transconductance	820	1000	1000	975	umhos
Plate Current	2.7	4.5	5.0	5.2	ma

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

DETECTOR - BIASED TYPE

Plate Voltage	250	275 max.	volts
Grid Bias (approximate)	-30	-33	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.

†With normal maximum signal the average d-c plate current should not exceed 5 ma.

