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RCA-27 DETECTOR, AMPLIFIER

Heater Coated Uni-potential Cathode
 Voltage 2.5 a-c or d-c volts
 Current 1.75 amp.
 Direct Interelectrode Capacitances:
 Grid to Plate 3.3 μuf
 Grid to Cathode 3.1 μuf
 Plate to Cathode 2.3 μuf
 Maximum Overall Length (3) 4-1/4"
 Maximum Diameter 1-9/16"
 Bulb ST-12
 Base Medium 5-Pin
 Pin 1-Heater (2) (4)
 Pin 2-Plate (1) (5)
 Pin 3-Grid Pin 4-Cathode
 Pin 5-Heater

BOTTOM VIEW AMPLIFIER (Class A)

Operating Conditions and Characteristics:

Heater*	2.5	2.5	2.5	2.5	volts
Plate	90	135	180	250	275 max. volts
Grid	-6	-9	-13.5	-21	volts
Amp. Fact.	9	9	9	9	
Plate Res.	11000	9000	9000	9250	ohms
Mut. Cond.	820	1000	1000	975	μmhos
Plate Cur.	2.7	4.5	5.0	5.2	ma.

Grid-coupling resistor, if used, should not exceed 1.0 megohm.

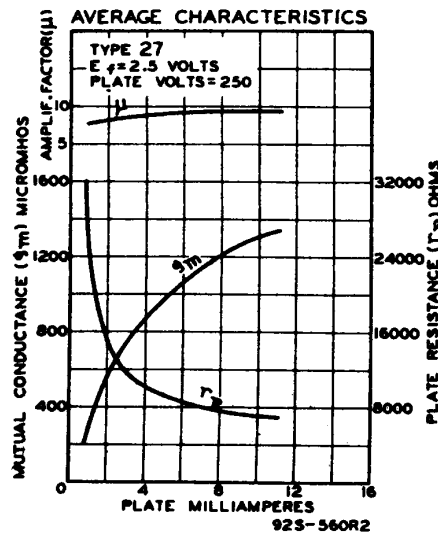
DETECTOR

Typical Operation:

	Biased		Grid-Leak	
Heater*	2.5	2.5	2.5	volts
Plate	250	275* max.	45	volts
Grid	-30*	-33* max.	Return to Cathode	volts
Plate Cur.°	Adjusted to 0.2 ma. with no input signal		-	
Grid Leak	-	-	1 to 5	megohms
Grid Condenser	-	-	0.00025	μf

* Max-Signal d-c plate current should be limited to 5.0 ma.

* Recommended practice is to connect the cathode directly to a mid-tap on the heater winding. If this practice is not followed, the potential difference between heater and cathode should be kept as low as possible.
 # Approximate.



JULY 1, 1935

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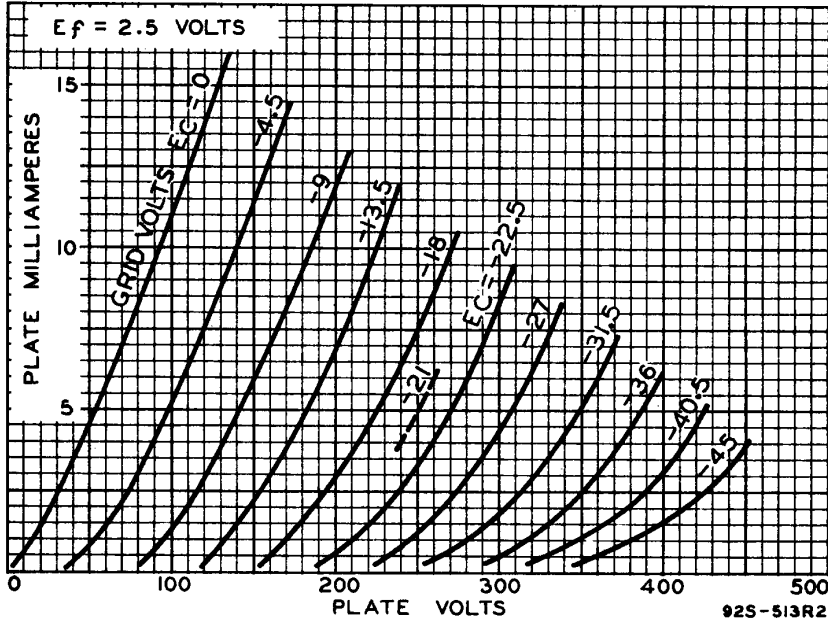
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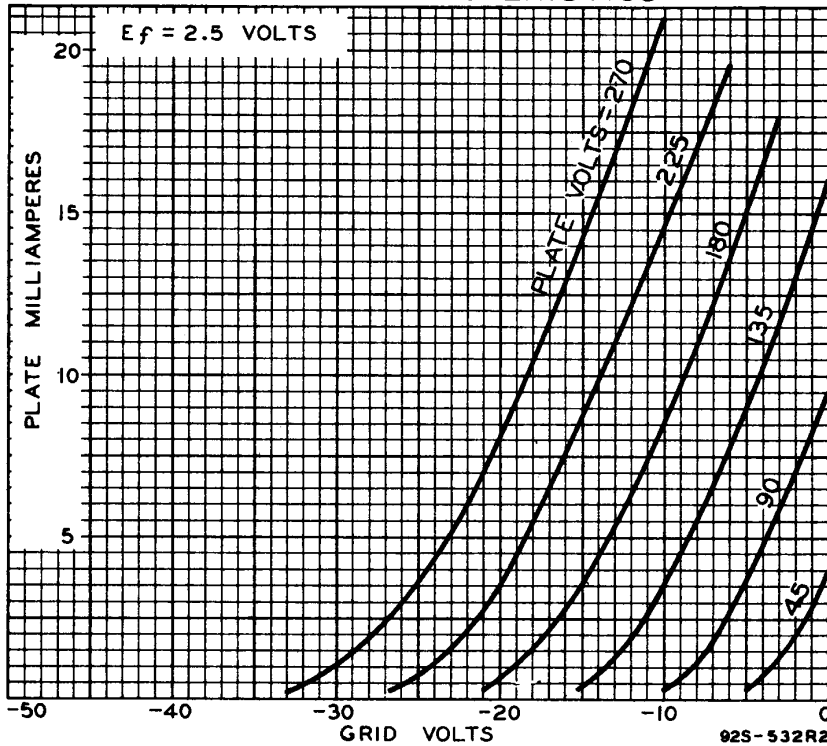


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AVERAGE PLATE CHARACTERISTICS



AVERAGE CHARACTERISTICS



AUG. 30, 1935

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