Cunningham Radiotron

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	µµf
Grid to Cathode	3.1	µµf
Plate to Cathode	2.3	µµf
Maximum Overall Length	③	4-1/4"
Maximum Diameter		1-9/16"
Bulb		ST-12
Base	② ④	Medium 5-Pin
Pin 1-Heater		Pin 4-Cathode
Pin 2-Plate	① ⑤	Pin 5-Heater
Pin 3-Grid		

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.

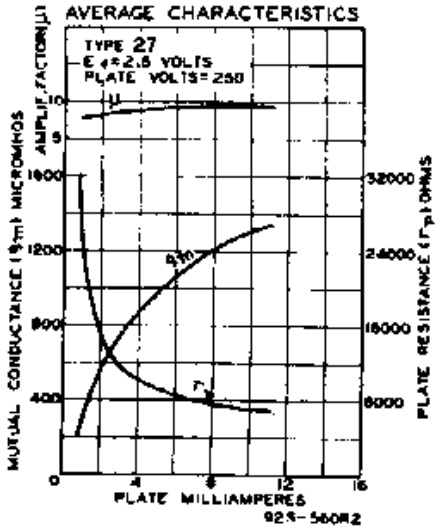
DETECTOR

Typical Operation:	*Biased*		*Grid-Leak*	
Heater *	2.5	2.5	2.5	volts
Plate	250	275 max.	45	volts
Grid	-30#	-33#	Return to Cathode	volts
Plate Cur.[a]	Adjusted to 0.2 ma. with no input signal		-	
Grid Leak	-	-	1 to 5	megohms
Grid Condenser	-	-	0.00075	µf

[a] Max-Signal d-c plate current should be limited to 6.0 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.



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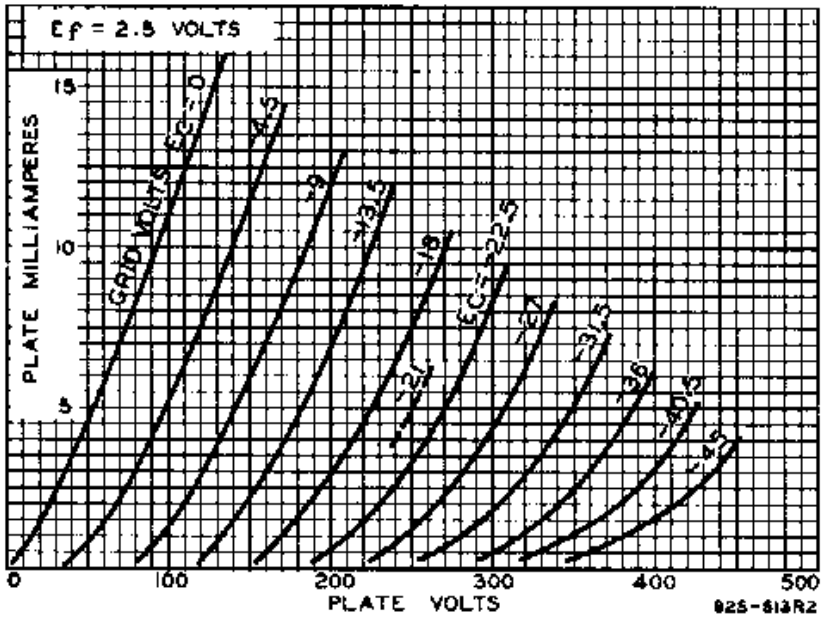
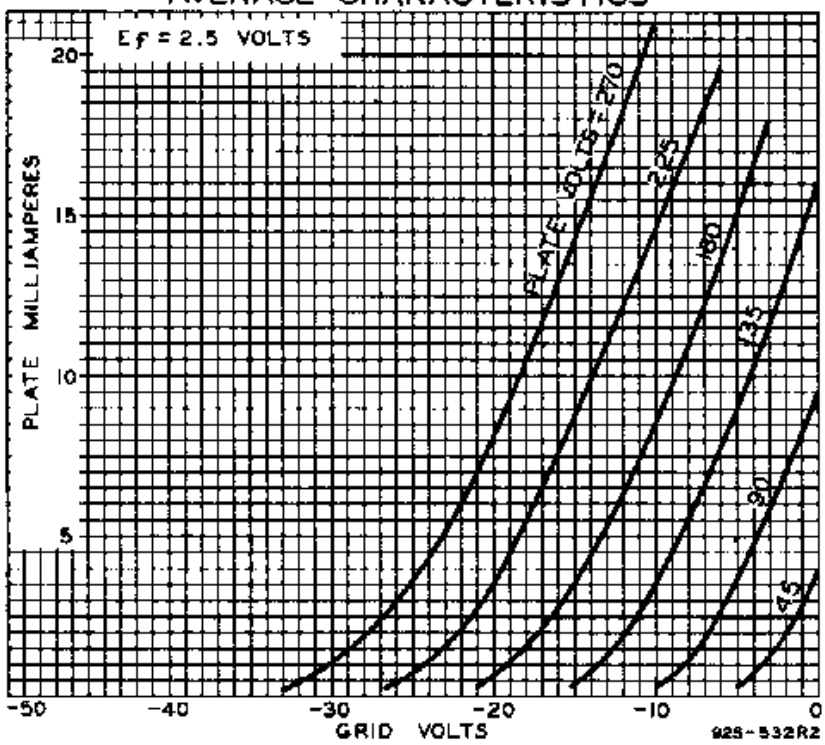
AVERAGE PLATE CHARACTERISTICS



AVERAGE CHARACTERISTICS



AUG. 30, 1935

RCA RADIOTRON DIVISION
RCA MANUFACTURING COMPANY INC

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