



24-A

SCREEN GRID R-F AMPLIFIER

Heater	Coated Unipotential Cathode		
Voltage	2.5		a-c or d-c volts
Current	1.75		amp.
Direct Interelectrode Capacitances:			
Grid to Plate	0.007 max.	0	μpf
Input	5.3		μpf
Output	10.5		μpf
Overall Length	4-25/32" to 5-1/32"		
Maximum Diameter	1-13/16"		
Bulb	ST-14		
Cap	Small Metal		
Base	Medium 5-Pin		
Pin 1 - Heater		Pin 4 - Cathode	
Pin 2 - Plate		Pin 5 - Heater	
Pin 3 - Screen		Cap - Grid	
Mounting Position	Any		←



BOTTOM VIEW

AMPLIFIER - Class A₁

Operating Conditions and Characteristics:

Heater*	2.5	2.5	volts
Plate	180	250 \square	volts
Screen	90		<u>max. volts</u>
Grid	-3	-3	volts
Amp. Fact.	400	630	
Plate Res.	400000	600000	ohms
Transcond.	1000	1050	μmhos
Plate Cur.	4	4	ma.
Screen Cur.	1.7	1.7	<u>max. ma.</u>

DETECTOR

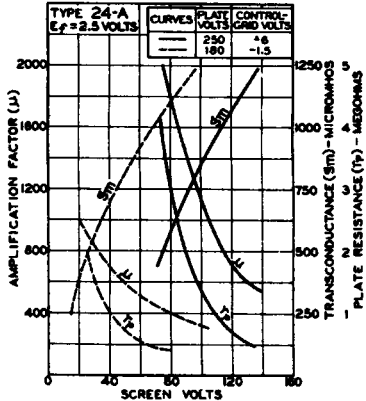
Typical Operation:

	Biased	Grid-Leak	
Heater *	2.5	2.5	volts
Plate	250 \square	180 max.	volts
Screen	20 to 45	20 to 45	volts
Grid	-5 approx.	Return to Cathode ∇	volts
Plate Load	0.25 Δ	0.25 Δ	megohm
Plate Cur.	Adjusted to 0.1 ma. with no input signal \blacksquare		

- \square Max. plate volts = 275.
- ∇ Conventional grid leak and condenser.
- Δ Or 500 h. choke shunted by 0.25 megohm. For resistance load, plate-supply voltage will be voltage at plate plus voltage drop in load caused by specified plate current.
- \blacksquare With shield-can.
- Average plate current with normal maximum signal should be limited to 4.0 ma., as measured with a d-c meter.
- * In circuits where the cathode is not directly connected to the heater, the potential difference between heater and cathode should be kept as low as possible.

← indicates a change.

AVERAGE CHARACTERISTICS



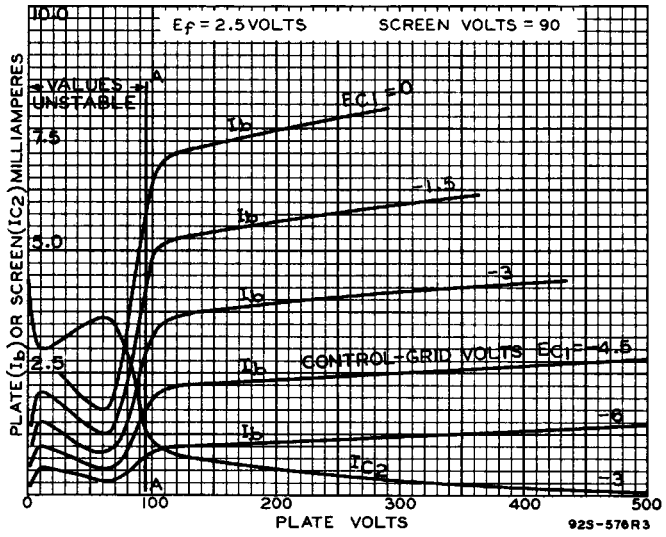
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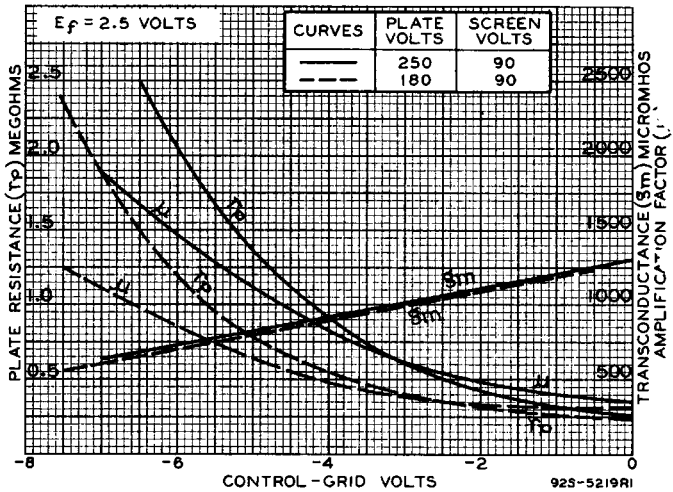


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AVERAGE PLATE CHARACTERISTICS



AVERAGE CHARACTERISTICS



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RCA RADIOTRON DIVISION
RCA MANUFACTURING COMPANY, INC.

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