

RCA-76

SUPER-TRIODE AMPLIFIER, DETECTOR

For additional curves, see Type 56. For additional data, refer to **RESISTANCE-COUPLED AMPLIFIER CHART.**

Heater	Coated Unipotential Cathode	
Voltage	6.3	a-c or d-c volts
Current	0.3	amp.
Direct Interelectrode Capacitances:		
Grid to Plate	2.8	μf
Grid to Cathode	3.5	μf
Plate to Cathode	2.5	μf
Maximum Overall Length		4-3/16" ←
Maximum Diameter		1-9/16"
Bulb	(3)	ST-12
Base		Small 5-Pin
Pin 1-Heater	(2) (4)	Pin 4-Cathode
Pin 2-Plate		Pin 5-Heater
Pin 3-Grid	(1) (5)	

BOTTOM VIEW

AMPLIFIER - Class A

Operating Conditions and Characteristics:

Heater *	6.3	6.3	volts
Plate	100	250 max.	volts
Grid •	-5	-13.5	volts
Amp. Fact.	13.8	13.8	
Plate Res.	12000	9500	ohms
Transcond.	1150	1450	μmhos
Plate Cur.	2.5	5	ma.

* The d-c resistance in the grid circuit of the 76 should not exceed 1.0 megohm.

DETECTOR

Typical Operation:	<u>Biased</u>		<u>Grid-Leak</u>	
Heater *	6.3	6.3	6.3	volts
Plate	100	250 max.	45	volts
Grid	-8°	-20°	Return to cathode volts	
Plate Cur.	Adjusted to 0.2 ma. with no input signal		—	
Self-Bias Res.	**	**	—	ohms
Grid Leak	—		1 to 5	megohms
Grid Condenser	—		0.00025	μf

° Approximate.

** Not critical, 30000 to 150000 ohms being suitable.

* 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.

AVERAGE PLATE CHARACTERISTICS

