

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		μpf
Grid to Cathode	3.1		μpf
Plate to Cathode	2.3		μpf
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.

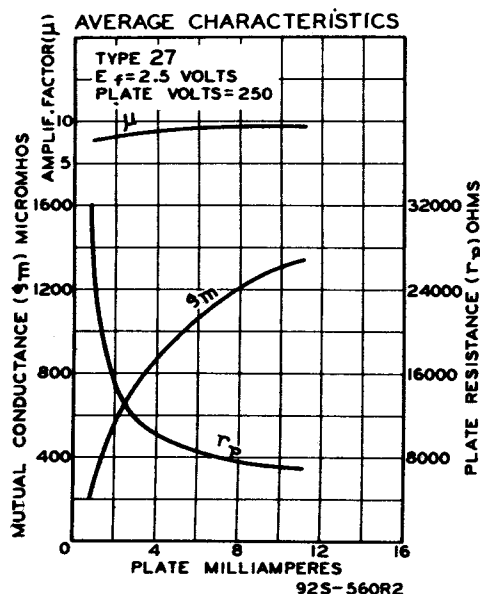
DETECTOR

Typical Operation:	<u>Biased</u>		<u>Grid-Leak</u>	
	2.5	2.5	2.5	volts
Heater *	250	275 max.	45	volts
Plate	-30*	-33*	Return to Cathode	volts
Grid	Adjusted to 0.2 ma. with no input signal		-	
Plate Cur. ^o			1 to 5	megohms
Grid Leak	-	-	0.00025	μf
Grid Condenser	-	-		

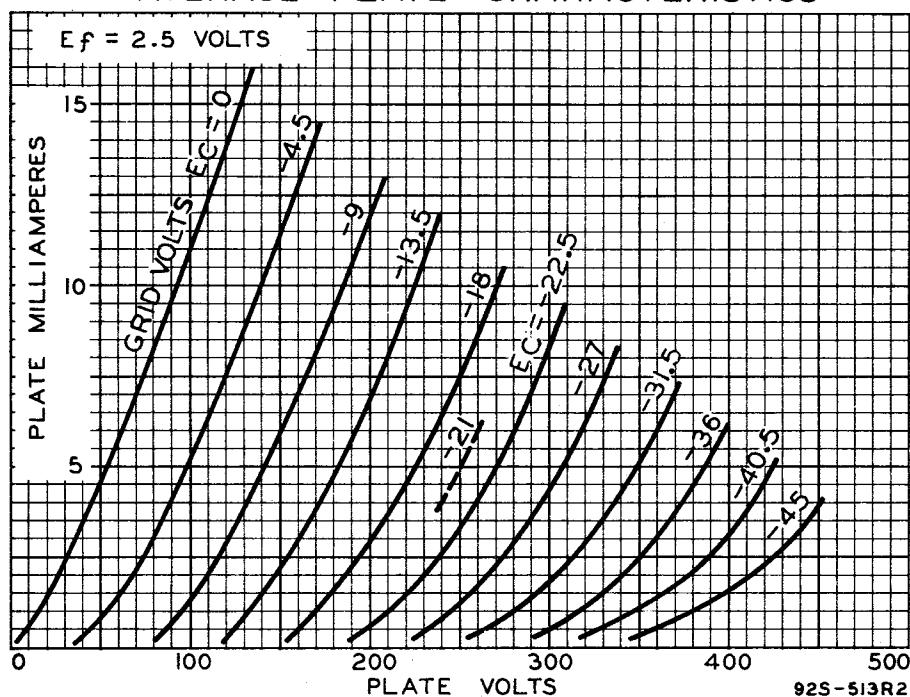
^o Max-Signal d-c plate current should be limited to 5.0 ma.

* 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.



AVERAGE PLATE CHARACTERISTICS



AVERAGE CHARACTERISTICS

