

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	μf
Grid to Cathode	3.1	μf
Plate to Cathode	2.3	μf
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
Plate	90	135	180	250
Grid	-6	-9	-13.5	-21
Amp. Fact.	9	9	9	9
Plate Res.	11000	9000	9000	9250
Mut. Cond.	820	1000	1000	975
Plate Cur.	2.7	4.5	5.0	5.2
				ohms
				μmhos
				ma.

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

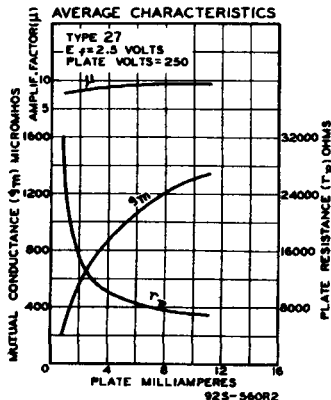
DETECTOR

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. ^o	Adjusted to 0.2 ma. with no input signal		-	
Grid Leak			1 to 5	megohms
Grid Condenser	-	-	0.00025	μf

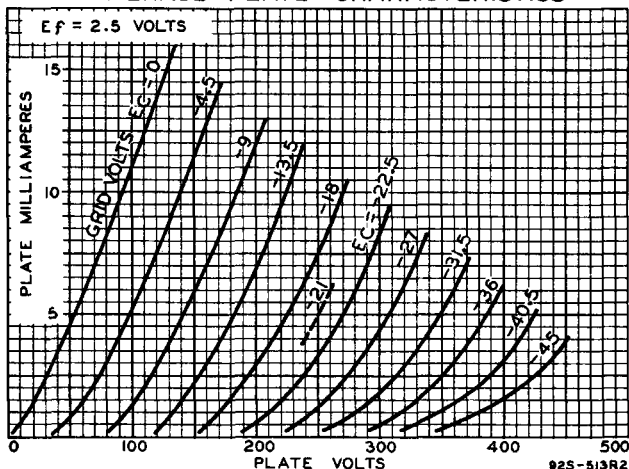
* Max-Signal d-c plate current should be limited to 5.0 ma.

* 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.



AVERAGE PLATE CHARACTERISTICS



AVERAGE CHARACTERISTICS

