

RCA-36

SCREEN GRID R-F AMPLIFIER

Heater	Coated Uni-potential Cathode		
Voltage	6.3		a-c or d-c volts
Current	0.3		amp.
Direct Interelectrode Capacitances:			
Grid to Plate (with shield-can)		0.007 max.	μ f
Input		3.7	μ f
Output		9.2	μ f
Overall Length	(3)	4-9/32" to 4-17/32"	
Maximum Diameter		1-9/16"	
Bulb	(2)	ST-12	
Cap	(4)	Small Metal	
Base		Small 5-Pin	
Pin 1-Heater	(1)	Pin 4-Cathode	
Pin 2-Plate	(5)	Pin 5-Heater	
Pin 3-Screen		Cap -Grid	

BOTTOM VIEW

AMPLIFIER (Class A)

Operating Conditions and Characteristics:

Heater *	6.3	6.3	6.3	6.3	volts
Plate	100	135	180	250 max.	volts
Screen	55	67.5	90 max.	90 max.	volts
Grid	-1.5	-1.5	-3	-3	volts
Amp. Fact.	470	475	525	595	
Plate Res.	0.55	0.475	0.50	0.55	megohm
Mut. Cond.	850	1000	1050	1080	μ mhos
Plate Cur.	1.8	2.8	3.1	3.2	ma.
Screen Cur.	-	-	-	1.7	max. ma.

DETECTOR

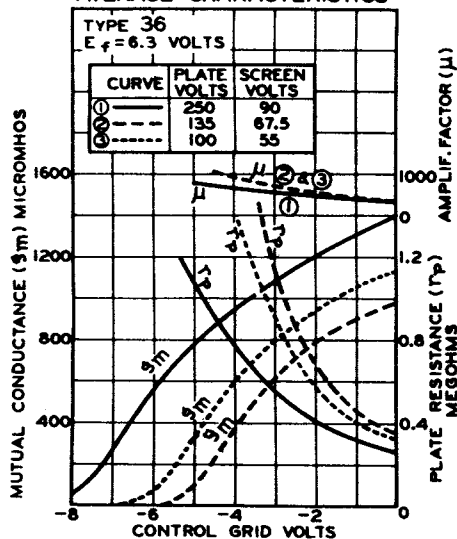
Typical Operation:

	Biased			Grid-Leak	
Heater *	6.3	6.3	6.3	6.3	volts
Plate-Supply	100	180	250 max.	135	volts
Screen	55	67.5	90 max.	Up to 45	volts
Grid	-5*	-6*	-8*	Return to Cathode	volts
Plate Load	0.25 Ω	0.25 Ω	0.25 Ω	0.25 Ω	megohm
Plate Cur.	Adjusted to 0.1 ma. with no input signal			-	
Grid Leak	-	-	-	2 to 5	megohms
Grid Condenser	-	-	-	0.00025	μ f

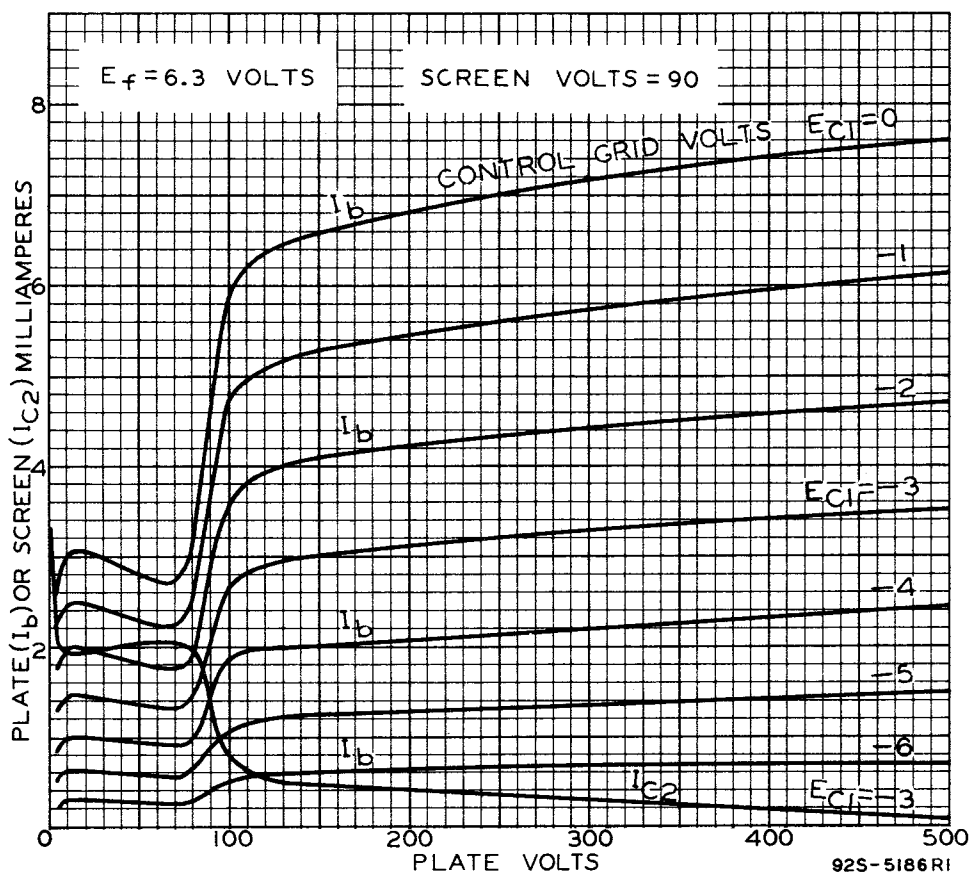
* Or equivalent impedance. In designing circuits to use the 36 as a detector, it is desirable to work from the detector stage directly into the power output stage. # Approximate.

* 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 CHARACTERISTICS



AVERAGE PLATE CHARACTERISTICS



AVERAGE CHARACTERISTICS

