



Cunningham Radiotron



32

RCA-32

SCREEN GRID R-F AMPLIFIER

Filament Voltage	Coated 2.0	d-c volts
Current	0.060	amp.
Direct Interelectrode Capacitances:		
Grid to Plate (with shield-can)	0.015 max.	μ f
Input	5.3	μ f
Output	10.5	μ f
Overall Length	(2) (3)	4-25/32" to 5-1/32"
Maximum Diameter		1-13/16"
Bulb		ST-14
Cap		Small Metal
Base	(1) (4)	Medium 4-Pin
Pin 1-Filament +		Pin 4-Filament -
Pin 2-Plate		Cap
Pin 3-Screen		-Grid

BOTTOM VIEW

AMPLIFIER (Class A)

Operating Conditions and Characteristics:

Filament	2.0	2.0	volts
Plate	135	180 max.	volts
Screen	67.5	67.5	max. volts
Grid	-3	-3	volts
Amp. Fact.	610	780	
Plate Res.	0.95	1.2	megohms
Mut. Cond.	640	650	μ mhos
Plate Cur.	1.7	1.7	ma.
Screen Cur.	0.4	0.4	max. ma.

Grid-coupling resistor, if used, should not exceed 2.0 megohms.

DETECTOR

Typical Operation:

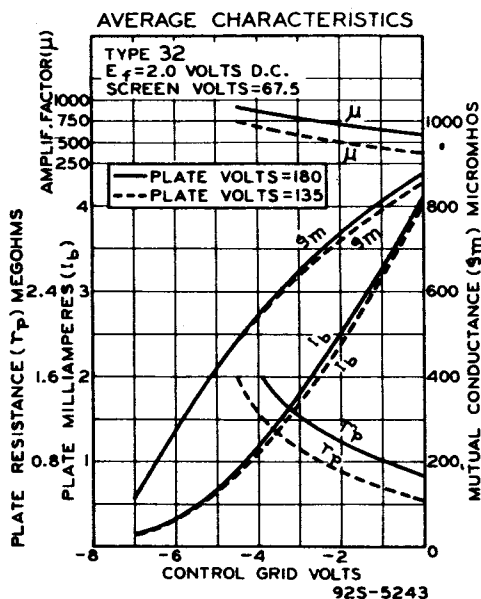
	Biased	
Filament	2.0	2.0
Plate-Supply	135	180
Screen	45	67.5 max.
Grid	-4.5*	-6*
Plate Load	0.1 *	0.1 *
Plate Cur.	Adjusted to 0.2 ma. with no input signal.	

Grid-Leak

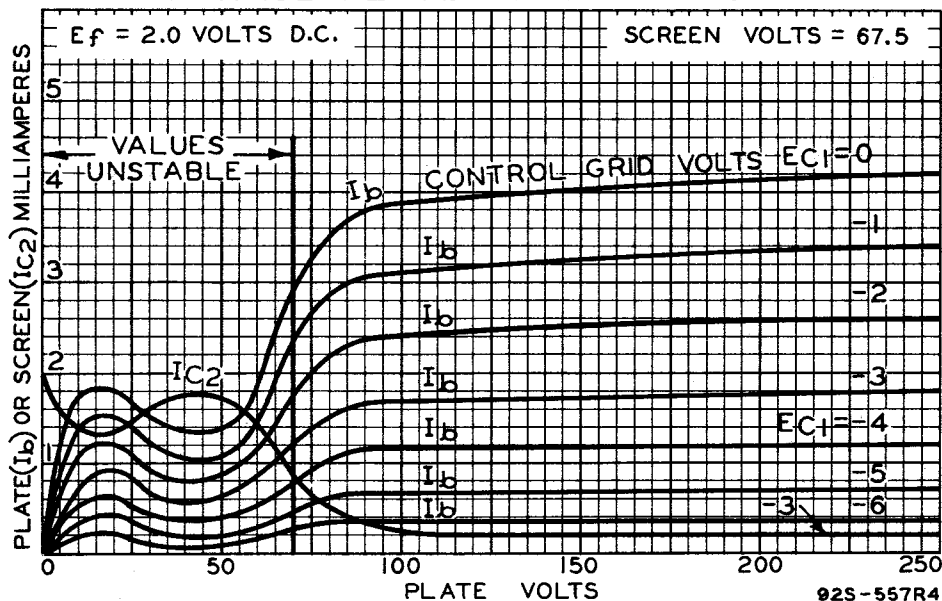
Filament	2.0	volts
Plate-Supply	135	volts
Screen	Up to 45	volts
Grid	Return to (+) Fil.	volts
Plate Load	0.1 *	megohm
Plate Cur.	-	
Grid Leak	1-5	megohms
Grid Condenser	0.00025	μ f

* Or equivalent impedance. In designing circuits to use the 32 as a detector, it is desirable to work from the detector stage directly into the power output stage.

* Approximate.



AVERAGE PLATE CHARACTERISTICS



AVERAGE CHARACTERISTICS

