

## RCA-32

### SCREEN GRID R-F AMPLIFIER

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

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	<u>max. volts</u>
Grid	-3	-3	volts
Amp. Fact.	610	780	
Plate Res.	0.95	1.2	megohms
Mut. Cond.	640	650	$\mu\text{mhos}$
Plate Cur.	1.7	1.7	ma.
Screen Cur.	0.4	0.4	<u>max. ma.</u>

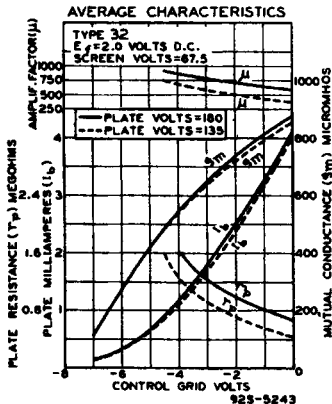
Grid-coupling resistor, if used, should not exceed 2.0 megohms.

#### DETECTOR

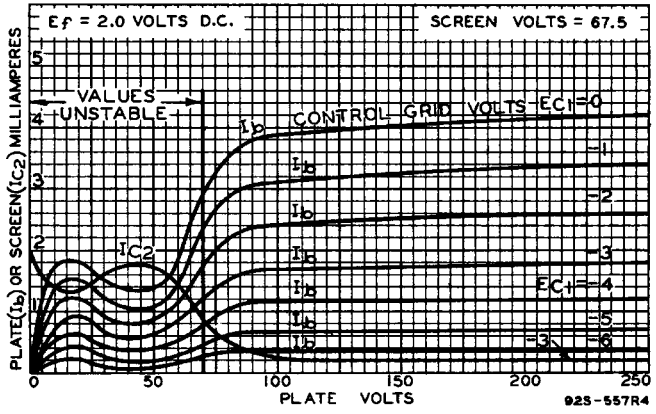
Typical Operation:	<i>Biased</i>		<i>Grid-Leak</i>		
	Filament	2.0	2.0	2.0	volts
Plate-Supply	135	180	135	135	volts
Screen	45	67.5 max.	Up to 45	45	volts
Grid	-4.5*	-6*	Return to (+) Fil.	0.1*	volts
Plate Load	0.1*	0.1*			megohm
Plate Cur.	Adjusted to 0.2 ma. with no input signal.		-	-	
Grid Leak	-	-	1-5	1-5	megohms
Grid Condenser	-	-	0.00025	0.00025	$\mu\text{f}$

\* 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**



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