



957

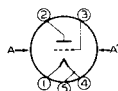
957

# DETECTOR, AMPLIFIER, OSCILLATOR

## ACORN TYPE

Filament	Coated	
Voltage	1.25	d-c volts
Current	0.05	amp.
Direct Interelectrode Capacitances: <sup>o</sup>		
Grid to Plate	1.2	$\mu\mu\text{f}$
Grid to Filament	0.3	$\mu\mu\text{f}$
Plate to Filament	0.7	$\mu\mu\text{f}$
Overall Length		1-7/32" $\pm$ 5/32"
Overall Diameter		1-3/32" $\pm$ 1/16"
Bulb }	See Outline in	T-4 $\frac{1}{2}$
Base }		
Pin 1 - Filament	Pin 5 - Filament -	
Pin 2 - Plate		
Pin 3 - Grid		AA' - Plane of
Pin 4 - Filament -		Electrodes
RCA Socket		Stock No. 9925
Mounting Position		Vertical <sup>o</sup>

See Outline in  
GENERAL SECTION



Short Part of Bulb: Bottom  
BOTTOM VIEW (5BD)

Maximum Ratings Are Design-Center Values

### AMPLIFIER

D-C Plate Voltage	135 max.	volts
<i>Characteristics - Class A<sub>1</sub> Amplifier:</i>		
D-C Plate Voltage	135	volts
D-C Grid Voltage*	-5	volts
Amplification Factor	13.5	
Plate Resistance	20800 approx.	ohms
Transconductance	650	$\mu\text{mhos}$
D-C Plate Current	2	ma.

<sup>o</sup> with no external shield.

<sup>o</sup> Horizontal operation permitted if plane of electrodes is vertical (plate on edge).

\* Under maximum rated conditions, the resistance in the grid circuit should not exceed 0.1 megohm with fixed bias, or 0.5 megohm with cathode bias.

*R-F grounding* by means of condensers placed close to the tube pins is required if the full capabilities of the 957 for ultra-high-frequency uses are to be obtained.

← Indicates a change.

JUNE 30, 1944

RCA VICTOR DIVISION  
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

DATA



## AVERAGE PLATE CHARACTERISTICS

