



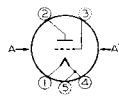
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# AMPLIFIER TRIODE

## ACORN TYPE

Filament	Coated	
Voltage	1.25	d-c volts
Current	0.10	amp.
Direct Interelectrode Capacitances: <sup>o</sup>		
Grid to Plate	2.6	$\mu\mu\text{f}$
Grid to Filament	0.6	$\mu\mu\text{f}$
Plate to Filament	0.8	$\mu\mu\text{f}$
Overall Length		1-7/32" $\pm$ 5/32"
Overall Diameter		1-3/32" $\pm$ 1/16"
Bulb } Base }	See Outline in GENERAL SECTION	{ Small Radial 5-Pin Pin 5 - Filament - AA' - Plane of Electrodes
Pin 1 - Filament +		
Pin 2 - Plate		
Pin 3 - Grid		
Pin 4 - Filament -		
RCA Socket		Stock No. 9925
Mounting Position		Vertical <sup>o</sup>



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

Maximum Ratings Are Design-Center Values

### A-F AMPLIFIER

D-C Plate Voltage	135 max.	volts
D-C Plate Current	5 max.	ma.
Plate Dissipation	600 max.	mw
<i>Characteristics - Class A<sub>1</sub> Amplifier:</i>		
D-C Plate Voltage	135	volts
D-C Grid Voltage*	-7.5	volts
Amplification Factor	12	
Plate Resistance	10000	ohms
Transconductance	1200	$\mu\text{mhos}$
D-C Plate Current	3	ma.

### R-F POWER AMPLIFIER & OSCILLATOR - Class C Telegraphy

Key-down conditions per tube without modulation\*

D-C Plate Voltage	135 max.	volts
D-C Grid Voltage	-30 max.	volts
D-C Plate Current	7 max.	ma.
D-C Grid Current	1 max.	ma.
D-C Plate Input	950 max.	mw
Plate Dissipation	600 max.	mw

### Typical Operation at Moderate Frequencies:

D-C Plate Voltage	135	volts
D-C Grid Voltage <sup>o</sup>	{ -20 20000 2500	volts
		ohms
		ohms
Peak R-F Grid Voltage	40	volts
D-C Plate Current	7	ma.
D-C Grid Current**	1 approx.	ma.
Driving Power**	35 approx.	mw
Power Output	600	mw

<sup>o</sup>, #,  $\circ$ , \*, \*\*,  $\bullet$ : See next page.

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## AMPLIFIER TRIODE

(continued from preceding page)

- With no external shield.
- ◇ 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.
- \* Modulation essentially negative may be used if the positive peak of the audio-frequency envelope does not exceed 115% of the carrier conditions.
- Obtained by a grid resistor (20000), cathode resistor (2500), or fixed supply.
- \*\* Subject to wide variation as explained under Tube Ratings in General Section.

NOTE: The 958-A is capable of producing a useful power output at frequencies up to approx. 350 megacycles.

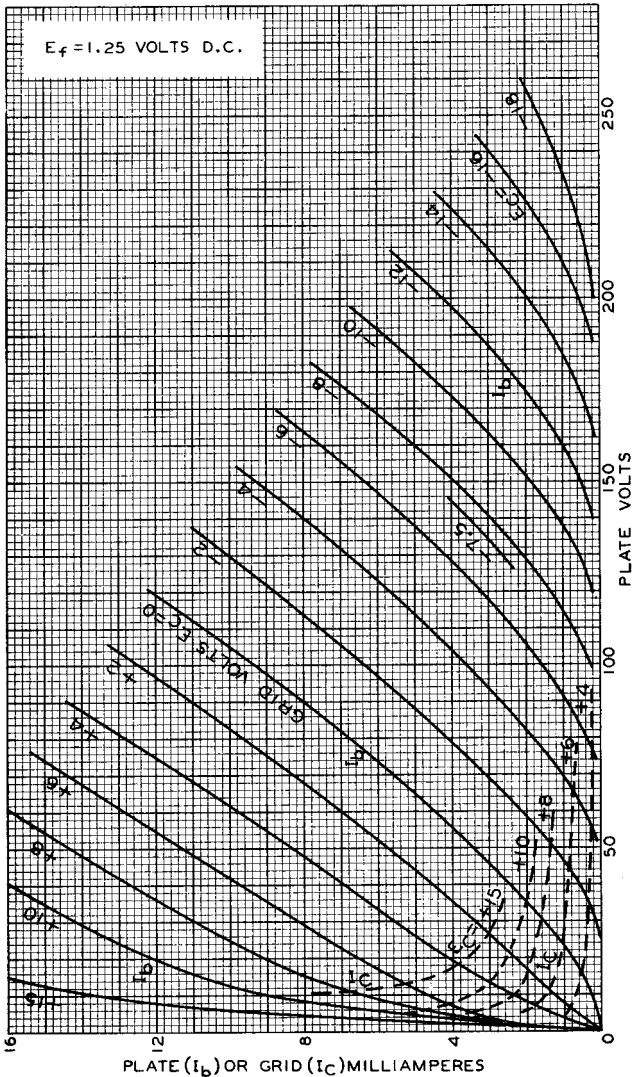
*R-F grounding* by means of condensers placed close to the tube pins is required if the full capabilities of the 958-A for ultra-high-frequency uses are to be obtained.



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### AVERAGE PLATE CHARACTERISTICS



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

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