



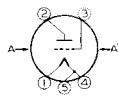
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AMPLIFIER TRIODE

ACORN TYPE

| | | |
|---------------------------------------------------------------------------|-----------------------------------|------------------------------------------------------------------------------------|
| Filament | Coated | |
| Voltage | 1.25 | d-c volts |
| Current | 0.10 | amp. |
| Direct Interelectrode Capacitances: ^o | | |
| Grid to Plate | 2.6 | μμf |
| Grid to Filament | 0.6 | μμf |
| Plate to Filament | 0.8 | μμf |
| Overall Length | | 1-7/32" ± 5/32" |
| Overall Diameter | | 1-3/32" ± 1/16" |
| Bulb } Base } | See Outline in GENERAL SECTION | { Small Radial 5-Pin T-4½ 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 ^o |



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 A₁ Amplifier:</i> | | |
| D-C Plate Voltage | 135 | volts |
| D-C Grid Voltage* | -7.5 | volts |
| Amplification Factor | 12 | |
| Plate Resistance | 10000 | ohms |
| Transconductance | 1200 | μmhos |
| 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 [•] | { -20 volts 20000 ohms 2500 ohms | volts | |
| 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 | |

^o, #, ^o, *, **, [•]: 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.

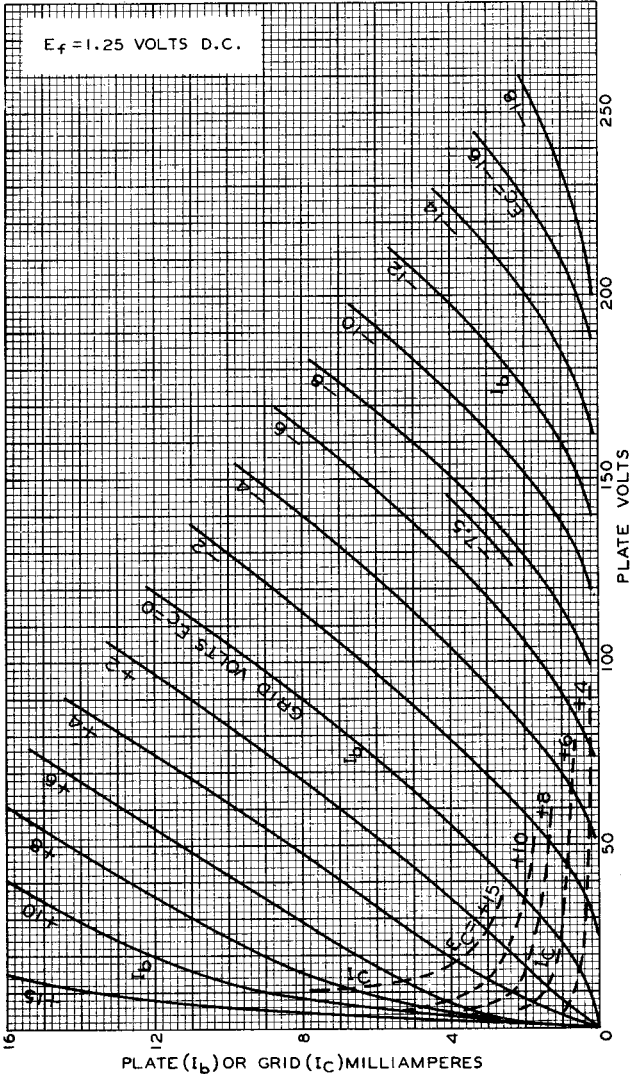
R-F grounding by means of condensers placed close to the tube pins is required if the full capabilities of the 958-A for ultra-high-frequency uses are to be obtained.



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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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