DETECTOR AMPLIFIER PENTODE
ACORN TYPE

Filament: Coated
Voltage: 1.25 d-c volts
Current: 0.05 amp.

Direct Inter-electrode Capacitances:
- Grid to Plate: 0.015 μf max.
- Input: 1.8 μf
- Output: 2.5 μf

Overall Length: 1-11/16" ± 3/16"
Overall Diameter: 1-3/32" ± 1/16"

End Terminals: See Outline in GENERAL SECTION
- Base: Small Radial 5-Pin
  - Pin 1: Filament
  - Pin 2: Grid No. 2
  - Pin 3: Grid No. 3
  - Pin 4: Filament
  - Pin 5: Filament
- RCA Socket: Stock No. 9925
- RCA Grid & Plate Clips: Stock No. 9938
- Mounting Position: Vertical

P is on Long Part of Bulb: Top
G1 is on Short Part of Bulb: Bottom

BOTTOM VIEW (5BE)

Maximum Ratings are Design-Center Values

AMPLIFIER

D-C Plate Voltage: 145 max. volts
D-C Screen (Grid No.2) Voltage: 67.5 max. volts

Characteristics — Class A1 Amplifier:
- D-C Plate Voltage: 135 volts
- Suppressor (Grid No.3) Connected to Filament(-) at socket
- D-C Screen Voltage: 67.5 volts
- D-C Grid (No.1) Voltage #: -3 volts
- Plate Resistance: 0.8 approx. megohm
- Transconductance: 600 μhos
- D-C Plate Current: 1.7 ma.
- D-C Screen Current: 0.4 ma.

O with shield baffle.
◊ 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 terminals is required if the full capabilities of the 959 for ultra-high-frequency uses are to be obtained. It is important in the cases of the plate and control-grid circuits that separate r-f grounding returns be made to a common point in order to avoid r-f inter-action through common return circuits. It may also be advisable in some applications to supplement the action of the by-pass condensers by r-f chokes placed close to the condensers in the return or supply lead for the grid, the screen, the suppressor, the plate, and the filament.

Indicates a change.

JUNE 30, 1944

RCA VICTOR DIVISION
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY
AVG. PLATE CHARACTERISTICS
PENTODE CONNECTION

$E_f = 1.25$ VOLTS D.C.  SCREEN VOLTS = 67.5
SUPPRESSOR VOLTS = 0

PLATE MILLIAMPERES

JUNE 14, 1944
RCA VICTOR DIVISION
92CM-6338R1