

## RADIOTRON

1M5-G

SUPER CONTROL R.F. AMPLIFIER PENTODE

1M5-G  
SHEET 1

|                                      |        |      |                         |
|--------------------------------------|--------|------|-------------------------|
| Filament                             | Coated |      |                         |
| Voltage                              | 2.0    |      | d-c volts               |
| Current                              | 0.12   |      | amp.                    |
| Direct Interelectrode Capacitances*: |        |      |                         |
| Grid to Plate                        | 0.010  | max. | μF.                     |
| Input                                | 6.0    |      | μF.                     |
| Output                               | 9.5    |      | μF.                     |
| Maximum Overall Length               |        |      | 4-29/32"                |
| Maximum Diameter                     |        |      | 1-9/16"                 |
| Bulb                                 |        |      | ST-12                   |
| Cap                                  |        |      | Skirted Miniature       |
| Mounting Position                    |        |      | Vertical                |
| Base                                 |        |      | Small Shell Octal 7-Pin |
| Pin 1-No Connection                  |        |      | Pin 5-No Connection     |
| Pin 2-Filament +                     |        |      | Pin 7-Filament -        |
| Pin 3-Plate                          |        |      | Pin 8-No Connection     |
| Pin 4-Screen                         |        |      | Cap -Grid               |



KEY

BOTTOM VIEW (G-5Y)

AMPLIFIER - Class A<sub>1</sub>

|                               |      |      |      |      |                |
|-------------------------------|------|------|------|------|----------------|
| Plate Voltage                 |      |      |      |      | 180 max. volts |
| Screen Voltage                |      |      |      |      | 90 max. volts  |
| Screen Supply Voltage         |      |      |      |      | 180 max. volts |
| Grid Voltage                  |      |      |      |      | 0 min. volts   |
| Plate Dissipation             |      |      |      |      | 0.5 max. watt  |
| Screen Dissipation            |      |      |      |      | 0.1 max. watt  |
| Typical Operation:            |      |      |      |      |                |
| Filament Voltage              | 2.0  | 2.0  | 2.0  | 2.0  | d-c volts      |
| Plate Voltage                 | 135  | 135  | 135  | 135  | volts          |
| Screen Voltage                | 30   | 45   | 67.5 | 90   | volts          |
| Grid Voltage <sup>Δ</sup>     | 0    | 0    | 0    | -3   | volts          |
| Plate Current                 | 0.65 | 1.25 | 2.5  | 1.5  | mA.            |
| Screen Current                | 0.25 | 0.5  | 0.9  | 0.5  | mA.            |
| Plate Resistance (approx.)    | 2.54 | 1.56 | 0.8  | 1.85 | megohms        |
| Transconductance              | 600  | 780  | 1000 | 700  | μmhos          |
| Transconductance <sup>○</sup> | -    | -    | 4    | -    | μmhos          |

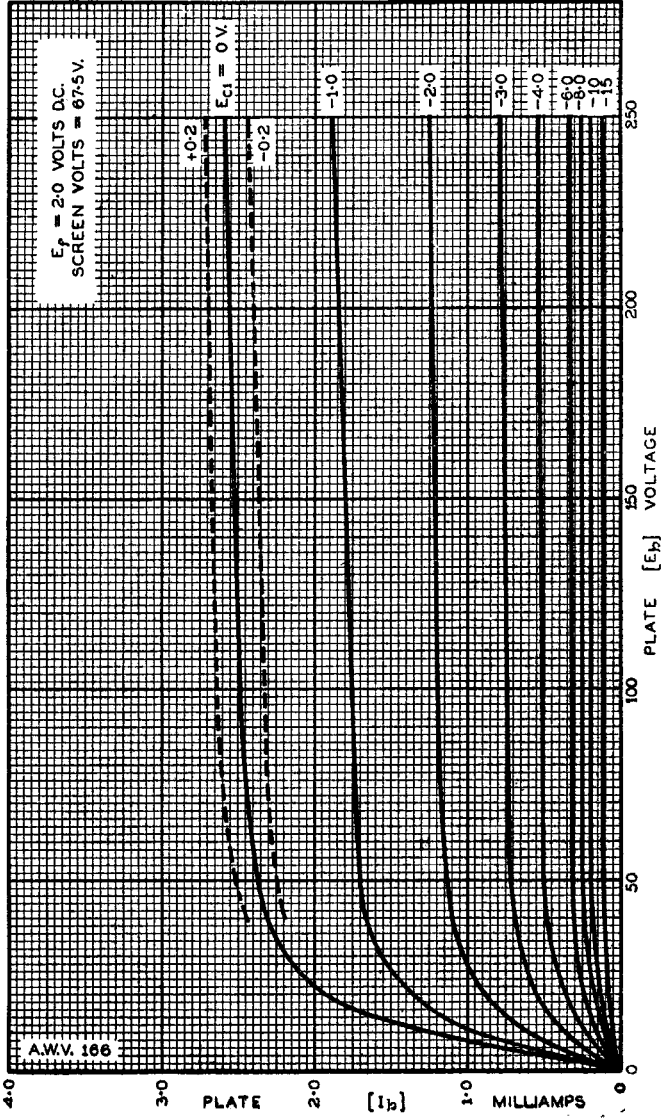
- \* With shield-can connected to negative filament terminal.
- † Horizontal operation permitted if plane of filament is vertical.
- Δ Negative filament return. The grid circuit resistance should not exceed 3 megohms for a single controlled stage, 2.5 megohms for two controlled stages, or 2 megohms for three controlled stages.
- For a negative grid bias of -16.0 volts.

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## PLATE CHARACTERISTICS



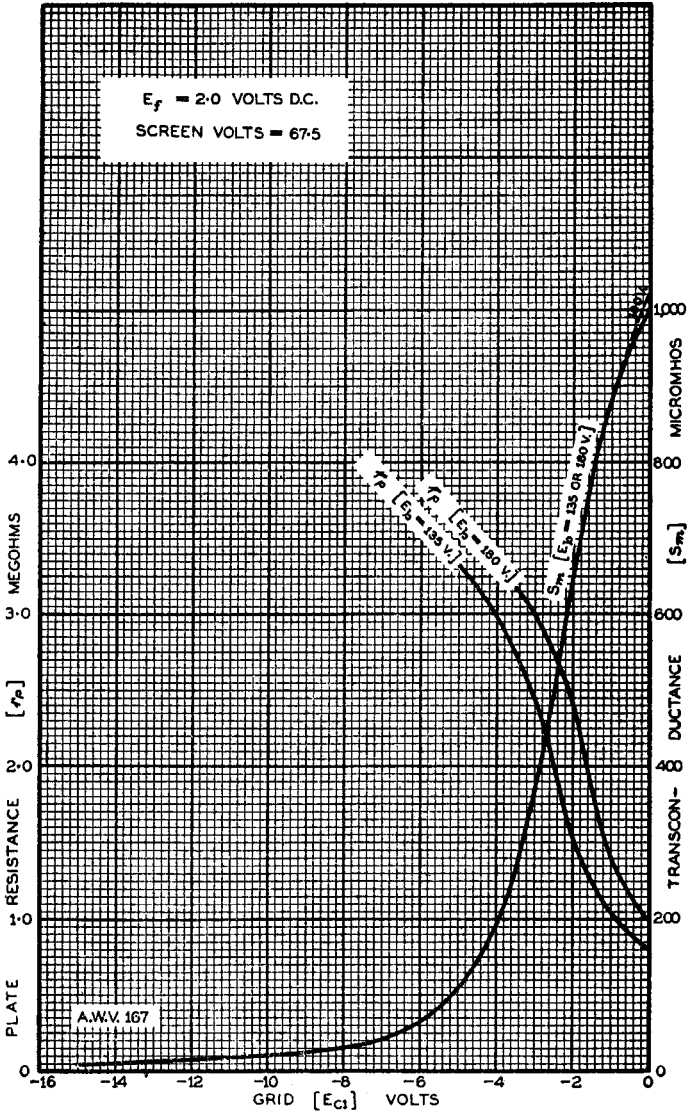
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## AVERAGE CHARACTERISTICS

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SHEET 2

$E_f = 2.0$  VOLTS D.C.  
SCREEN VOLTS = 67.5



A.W.V. 167

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## AVERAGE CHARACTERISTICS

$E_f = 2.0$  VOLTS D.C.  
GRID VOLTS = 0

