

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.	μμF.
Input	6.0		μμF.
Output	9.5		μμF.

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 2-Filament +

Pin 3-Plate

Pin 4-Screen



Pin 5-No Connection

Pin 7-Filament -

Pin 8-No Connection

Cap -Grid

BOTTOM VIEW (G-5Y)

AMPLIFIER - Class A₁

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 ^Δ	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 [○]	-	-	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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$E_f = 2.0$ VOLTS D.C.
SCREEN VOLTS = 67.5V.

$E_{c1} = 0$ V.

+0.2

-0.2

-1.0

-2.0

-3.0

-4.0

-6.0

-8.0

-10

-15

250

200

150

100

50

0

PLATE $[E_b]$ VOLTAGE

A.W.V. 166

PLATE

$[I_b]$

MILLIAMPS

4.0

3.0

2.0

1.0

0

RADIOTRON

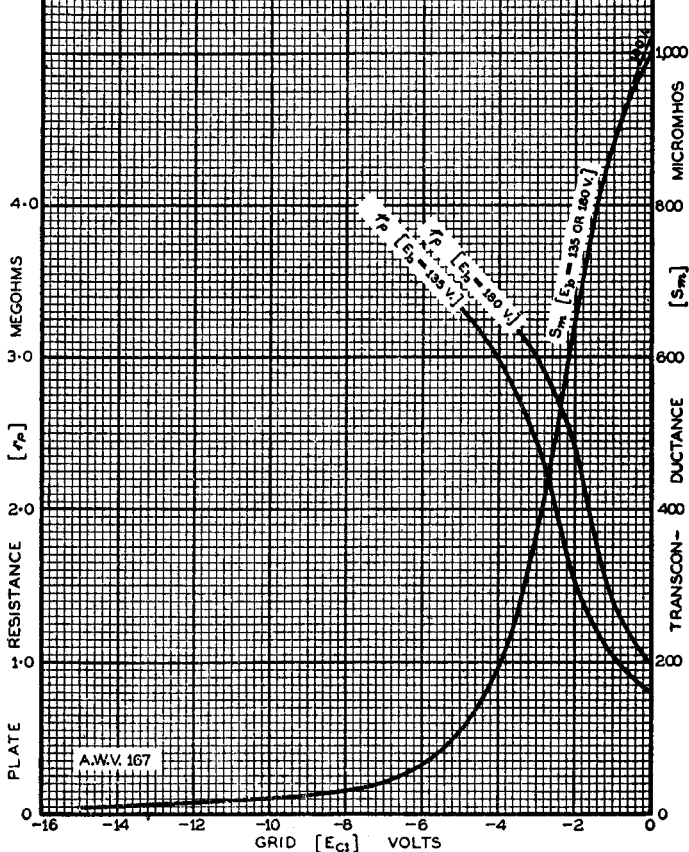
1M5-G

AVERAGE CHARACTERISTICS

1M5-G
SHEET 2

$E_f = 2.0$ VOLTS D.C.

SCREEN VOLTS = 67.5



AMALGAMATED WIRELESS VALVE CO. PTY. LTD.

JULY 1941

SYDNEY, AUSTRALIA

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AVERAGE CHARACTERISTICS

$E_f = 2.0$ VOLTS D.C.

GRID VOLTS = 0

PLATE
RESISTANCE
[r_p]
MEG OHMS

[r_p]

MEG OHMS

4.0

3.0

2.0

1.0

0

A.W.V. 168

SCREEN [E_{c2}] VOLTS

20 30 40 50 60 70 80 90 100

MICROMHOS

[S_m]

1200

1000

800

600

400

200

0

TRANSCON-

S_m [$E_b = 180$ V.]

S_m [$E_b = 135$ V.]

r_p [$E_b = 180$ V.]

r_p [$E_b = 135$ V.]