

RADIOTRON

1L5-G

POWER AMPLIFIER PENTODE

1L5-G
SHEET 1

Filament	Coated	
Voltage	2.0	d-c volts
Current	0.24	amp.
Direct Interelectrode Capacitances		
Pentode Connection:-		
Grid to Plate	1.0	μ F.
Input	8.0	μ F.
Output	11.0	μ F.
Triode Connection:-		
Grid to Plate	2.6	μ F.
Input	6.4	μ F.
Output	15.7	μ F.
Maximum Overall Length		4-21/32"
Maximum Diameter		1-13/16"
Bulb		ST-14
Mounting Position		Vertical, Base Down
Base		Medium Shell Octal 7-Pin
Pin 1-No Connection		Pin 5-Grid
Pin 2-Filament +		Pin 7-Filament -
Pin 3-Plate		Pin 8-No Connection
Pin 4-Screen		



BOTTOM VIEW (G-6X)

AMPLIFIER - CLASS A₁ (Pentode Connection)

Plate Voltage		180 max.	volts
Screen Voltage		180 max.	volts
Plate Dissipation		1.8 max.	watts
Screen Dissipation		0.5 max.	watt
Typical Operation:			
Filament Voltage	2.0	2.0	2.0 d-c volts
Plate Voltage	90	135	180 volts
Screen Voltage	90	135	180 volts
Grid Voltage	-2.5	-4.5	-6.0 volts
Cathode Resistor	555	600	508 ohms
Peak A-F Grid Voltage	-2.75	-4.75	-6.25 volts
Plate Resistance (approx.)	0.175	0.15	0.137 megohm
Transconductance	1830	2150	2400 μ mhos
Zero-Sig. Plate Current	3.6	6.0	9.5 mA.
Max.-Sig. Plate Current	3.6	6.4	9.7 mA.
Zero-Sig. Screen Current	0.9	1.5	2.3 mA.
Max.-Sig. Screen Current	1.5	2.4	4.0 mA.
Load Resistance	25000	15000	15000 ohms
Total Harmonic Distortion	10	10	8 %
Power Output	120	340	750 mW.

AMPLIFIER - CLASS A₁ (Triode Connection)*

Plate Voltage		180 max.	volts
Plate & Screen Dissipation (total)		2.0 max.	watts
Cathode Current		13.0 max.	mA.
Typical Operation:			
Filament Voltage		2.0 d-c	volts
Plate Voltage		135	volts
Grid Voltage		-6.0	volts
Peak A-F Grid Voltage		6.25	volts
Zero-Sig. Plate Current		4.4	mA.
Max.-Sig. Plate Current		4.7	mA.
Plate Resistance		6750	ohms
Transconductance		1940	μ mhos
Amplification Factor		13.1	
Load Resistance		12000	ohms
Second Harmonic Distortion		5	%
Power Output		105	mW.

* Horizontal operation permitted if pins 2 and 7 are in a vertical plane.

* Relative to Negative Filament Return. The d-c resistance in the grid circuit should be limited to 1.0 megohm.

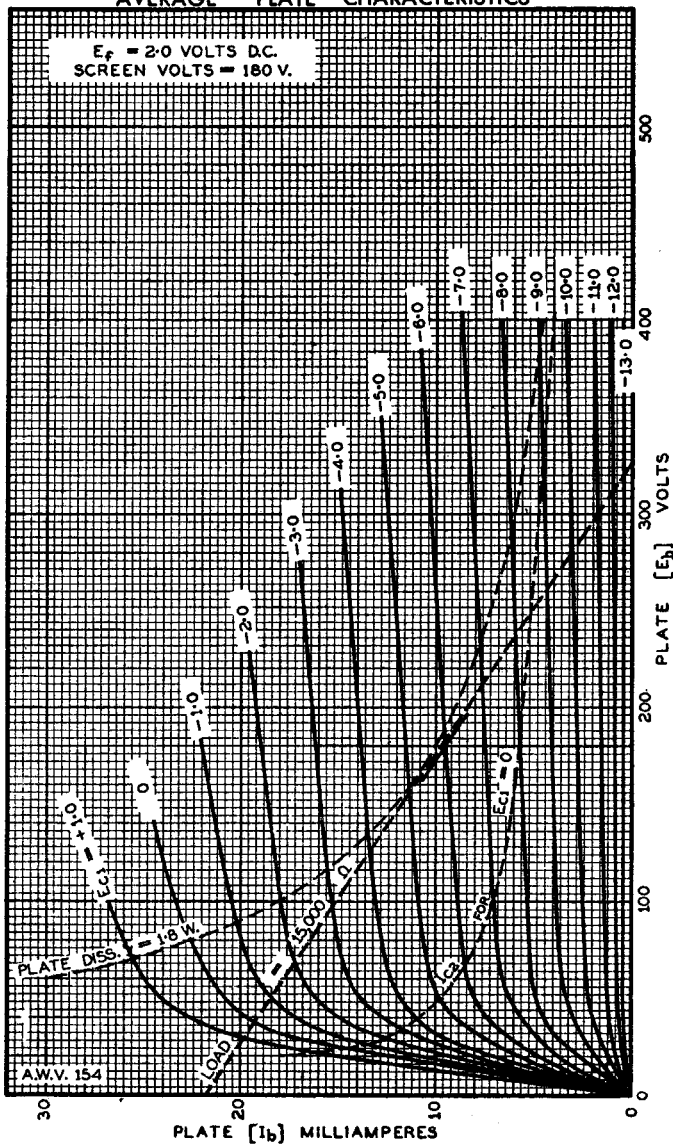
* Screen connected to plate.

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AVERAGE PLATE CHARACTERISTICS



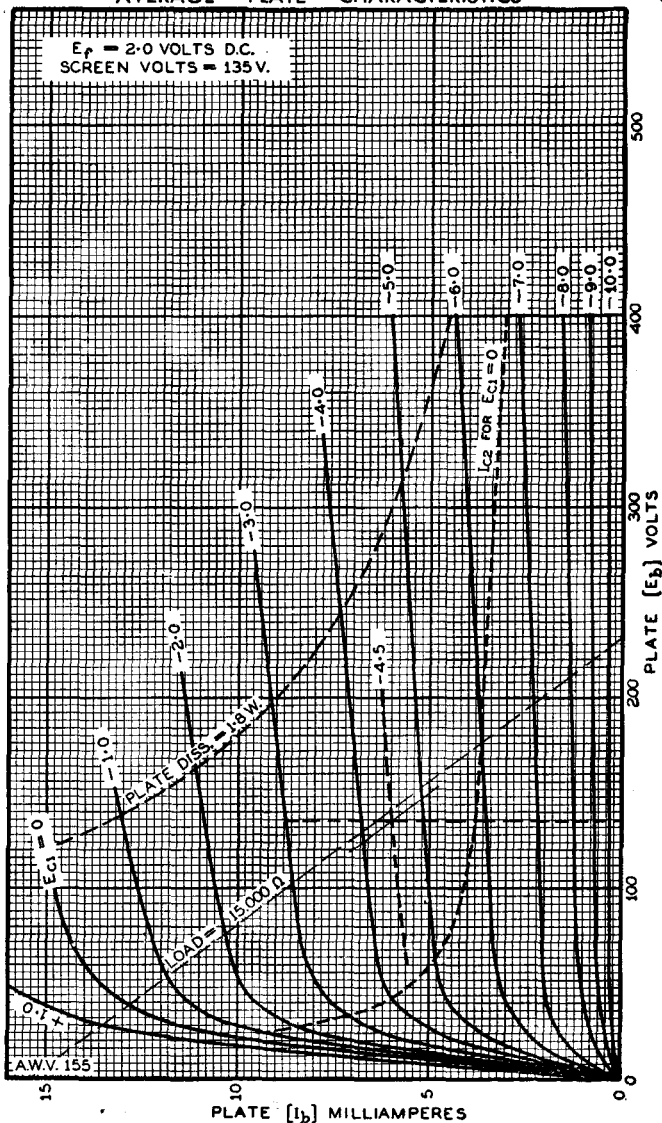
RADIOTRON

1L5-G

AVERAGE PLATE CHARACTERISTICS

1L5-G
SHEET 2

$E_f = 2.0$ VOLTS D.C.
SCREEN VOLTS = 135 V.

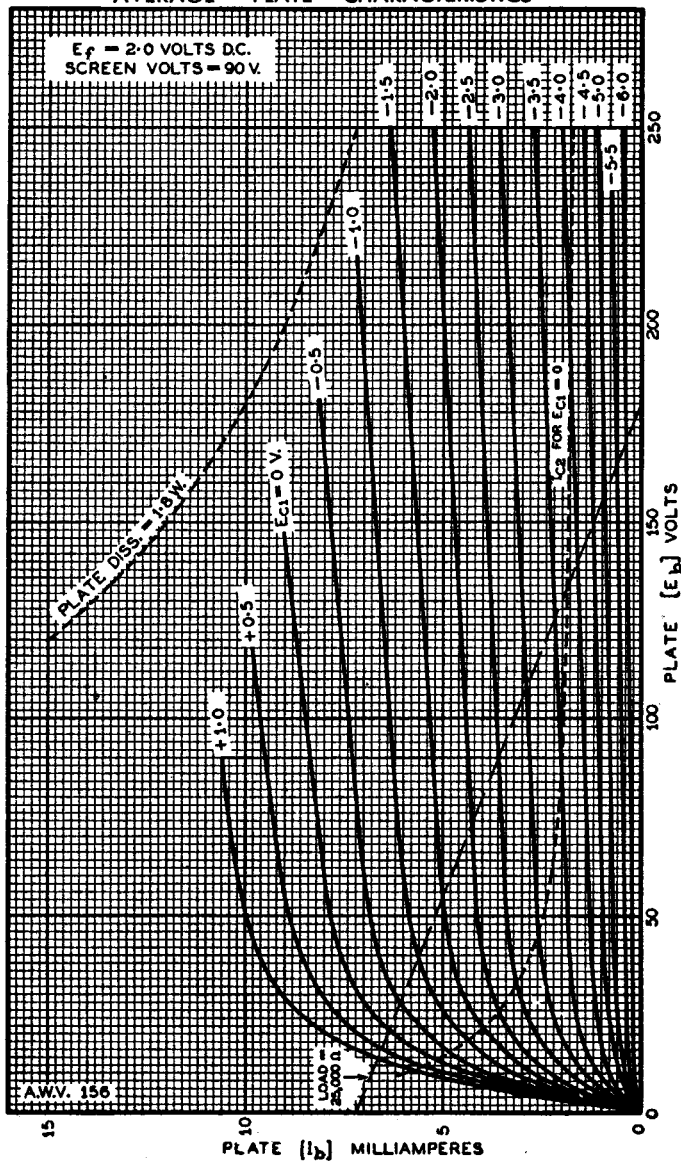


1L5-G

RADIOTRON

1L5-G

AVERAGE PLATE CHARACTERISTICS

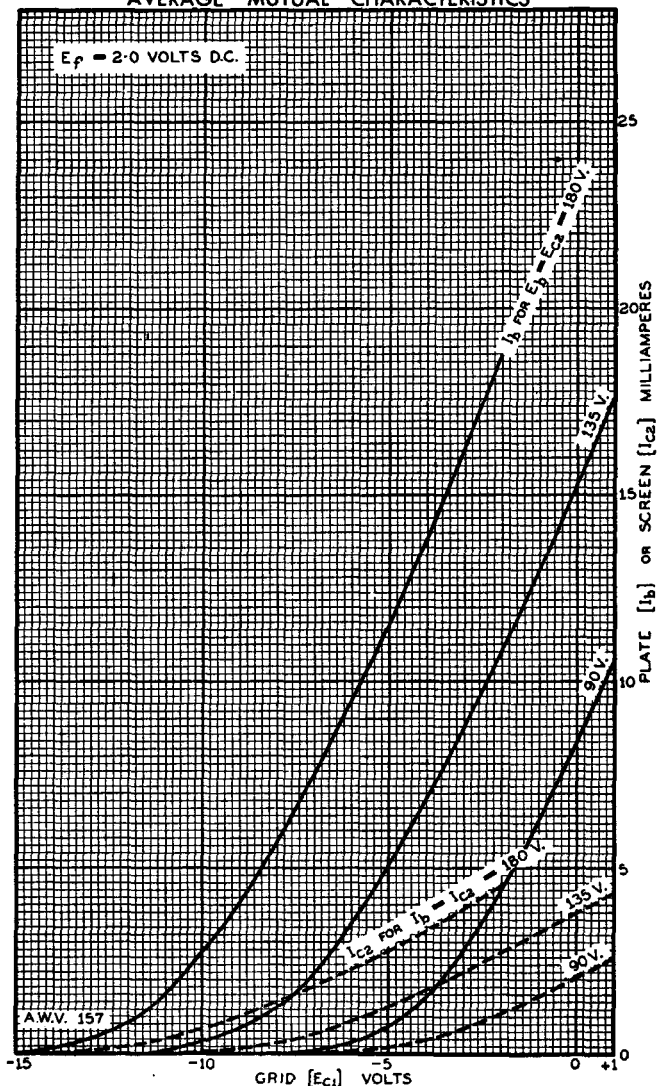


RADIOTRON

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SHEET 3

AVERAGE MUTUAL CHARACTERISTICS



1L5-G

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1L5-G

AVERAGE TRIODE CHARACTERISTICS

