RADIOTRON
1K6
DUO-DIODE PENTODE

Filament	Coated	
Voltage	2.0	d-c volts
Current	0.12	amp.
Maximum Overall Length		4-15/16"
Maximum Diameter		1-9/16"
Bulb		ST-12
Cap		Small Metal
Mounting Position		Any

Base — Small 6-Pin
- Pin 1-Filament +
- Pin 2-Plate
- Pin 3-Diode Plate # 2
- Pin 4-Diode Plate #1
- Pin 5-Screen
- Pin 6-Filament -
- Cap -Grid

BOTTOM VIEW (6WA)

Maximum Ratings, Interelectrode Capacitances, Typical Operating Conditions and Curves are the same as for type 1K7-G. Types 1K6 and 1K7-G are identical electrically.

RADIOTRON
1K7-G
DUO-DIODE PENTODE

Filament	Coated	
Voltage	2.0	d-c volts
Current	0.12	amp.

Direct Interelectrode Capacitances - Pentode Unit*:

Grid to Plate	0.015 max.	µµF.
Input	5.0	µµF.
Output	10.5	µµF.

Maximum Overall Length	4-29/32"
Maximum Diameter	1-9/16"
Bulb	ST-12
Cap	Skirted Miniature
Mounting Position	Any

Base — Small Shell Octal 8-Pin
- Pin 1-No Connection
- Pin 2-Filament +
- Pin 3-Pentode Plate
- Pin 4-Diode Plate # 2
- Pin 5-Diode Plate # 1
- Pin 6-Pentode Screen
- Pin 7-Filament -
- Pin 8-No Connection
- Cap -Pentode Grid

BOTTOM VIEW (G-7AE)

Diode Plate # 2 is at positive end of filament; Diode Plate # 1 is at negative end of filament.

* With shield-can connected to negative filament terminal.

1K7-G

RADIOTRON
1K7-G
DUO-DIODE PENTODE

(continued from preceding page)

AMPLIFIER - Class A_1 (Pentode Connection)

Plate Voltage				180	max.	volts
Screen Voltage				135	max.	volts
Screen Supply Voltage				180	max.	volts
Plate Dissipation				0.35	max.	watt
Screen Dissipation				0.07	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	45	67.5	90	135		volts
Grid Voltage*	0	0	-3	-4.5		volts
Plate Current	0.9	1.8	0.9	1.5		mA.
Screen Current	0.35	0.7	0.35	0.5		mA.
Plate Resistance(approx.)	2.0	1.25	2.0	1.4		megohm
Transconductance	620	800	600	700		μmhos

AMPLIFIER - Class A_1 (Triode Connection).#

Plate Voltage		180	max.	volts
Plate & Screen Dissipation(total)		0.7	max.	watt
Typical Operation:-				
Filament Voltage	2.0	2.0	d-c	volts
Plate Voltage	135	180		volts
Grid Voltage*	-4.5	-6		volts
Plate Current	2.0	3.5		mA.
Plate Resistance	16500	15000		ohms
Transconductance	900	1000		μmhos
Amplification Factor	15	15		
Load Resistance	30000	40000		ohms
Total Harmonic Distortion	5	5		%
Power Output	38	60approx.		mW.

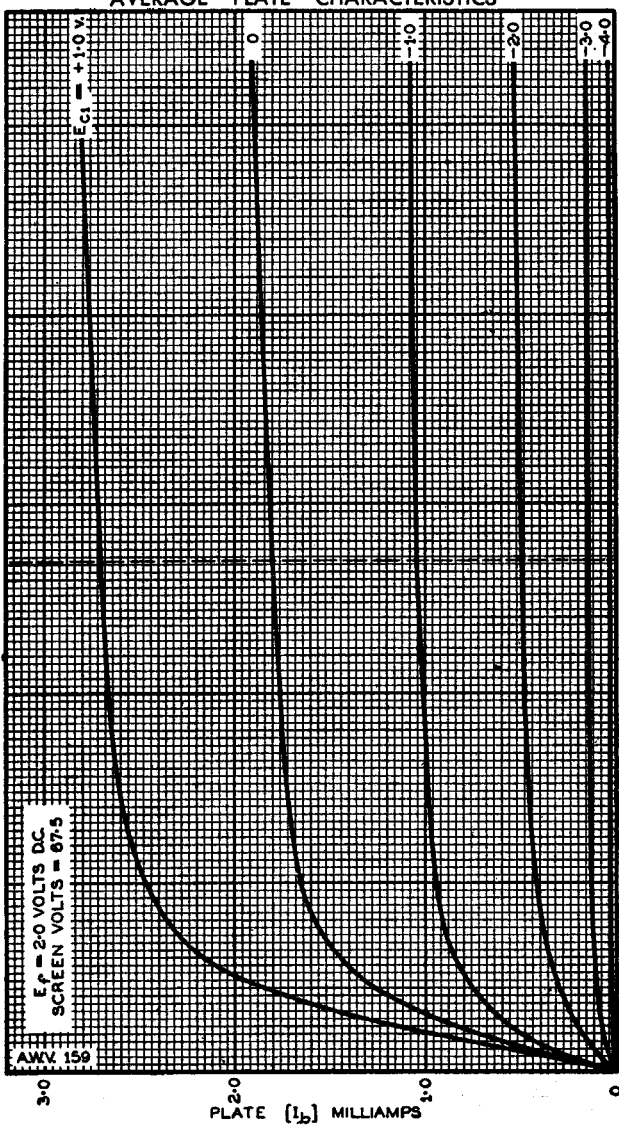
* Negative Filament Return. The grid circuit resistance should not exceed 3 megohms except under resistance coupled conditions.

\# Screen connected to plate.

RADIOTRON

1K7-G

AVERAGE PLATE CHARACTERISTICS



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1K7-G

RADIOTRON

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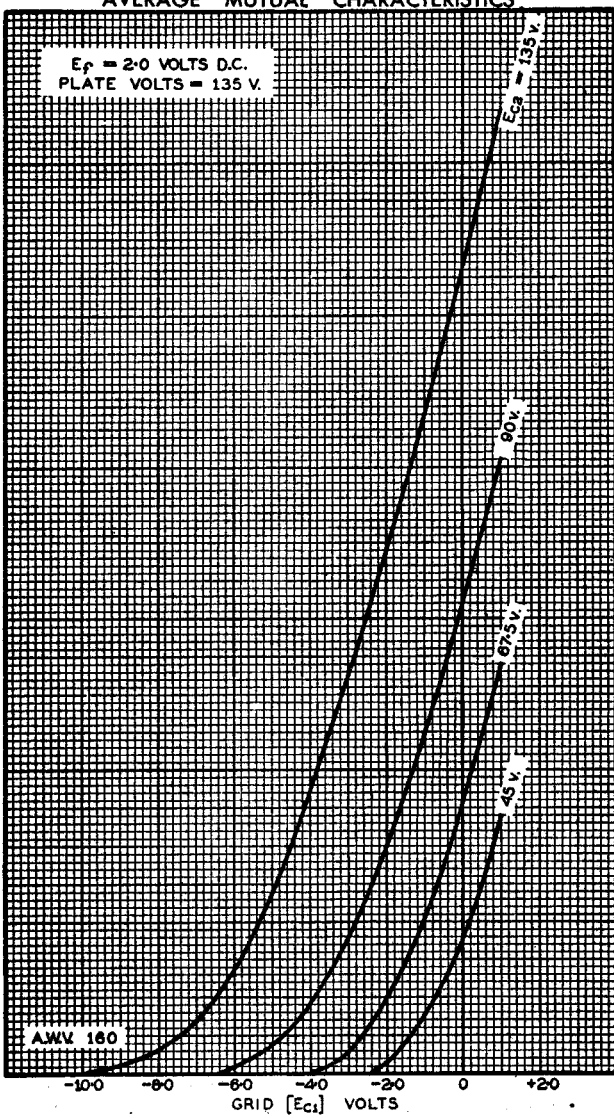
AVERAGE MUTUAL CHARACTERISTICS

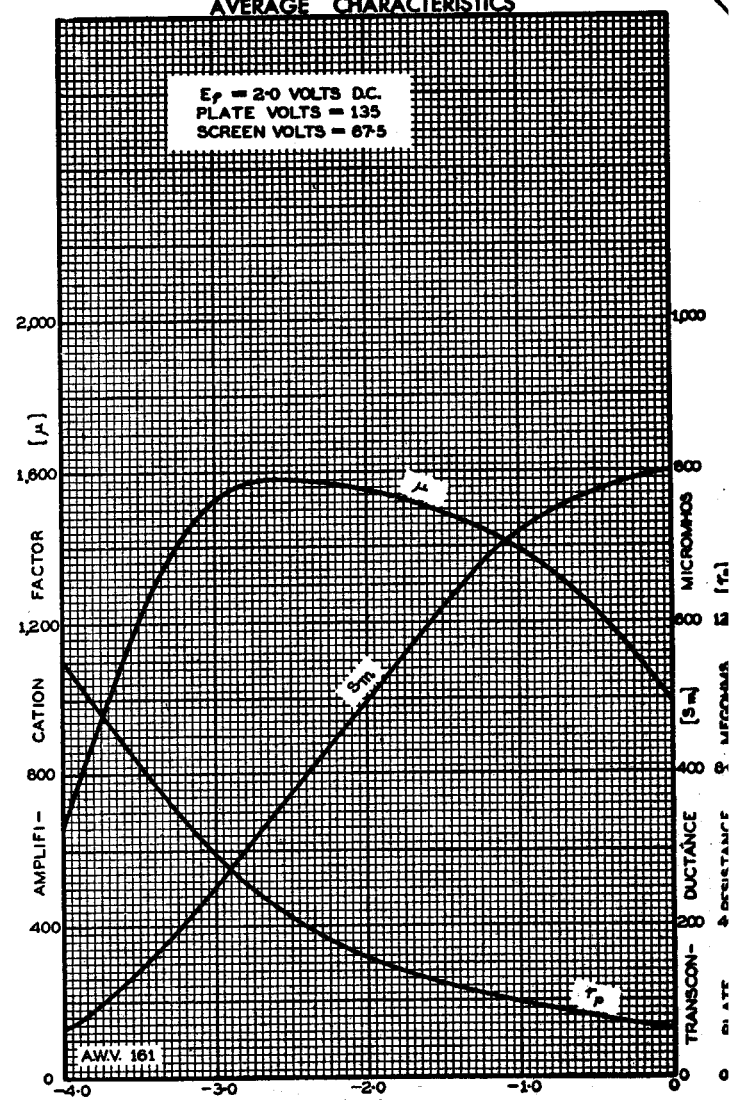


RADIOTRON

1K7-G

AVERAGE CHARACTERISTICS

1K7-G SHEET 3



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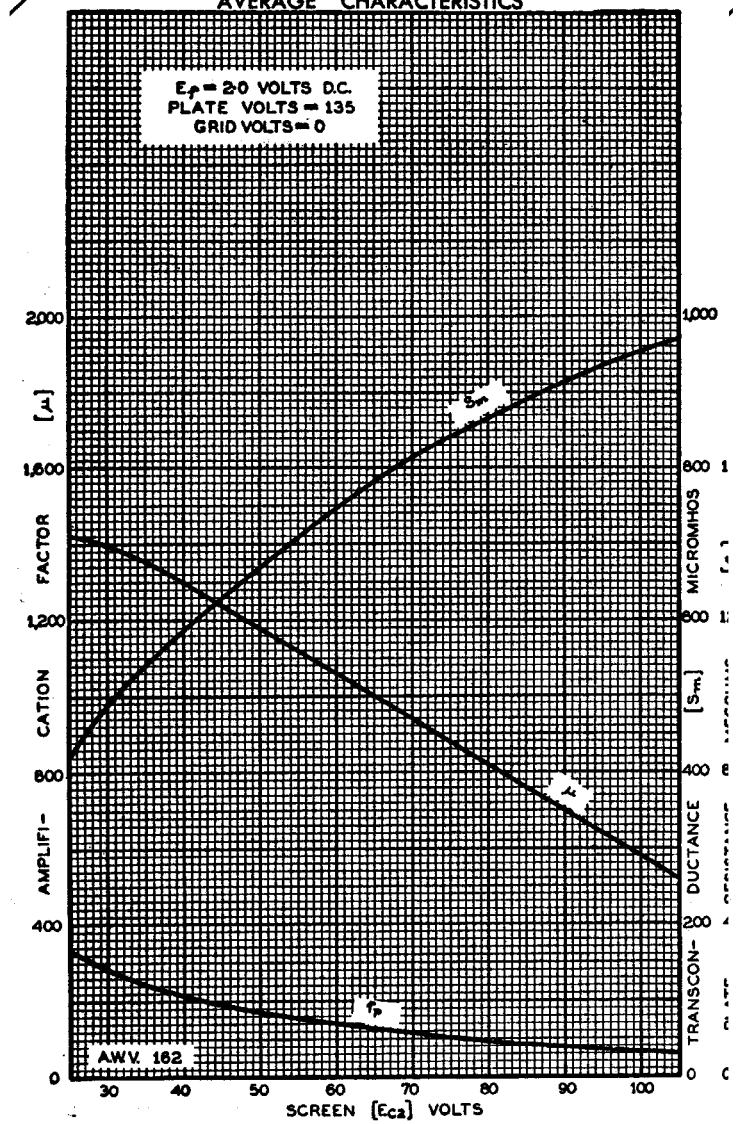
1K7-G

RADIOTRON
1K7-G

AVERAGE CHARACTERISTICS

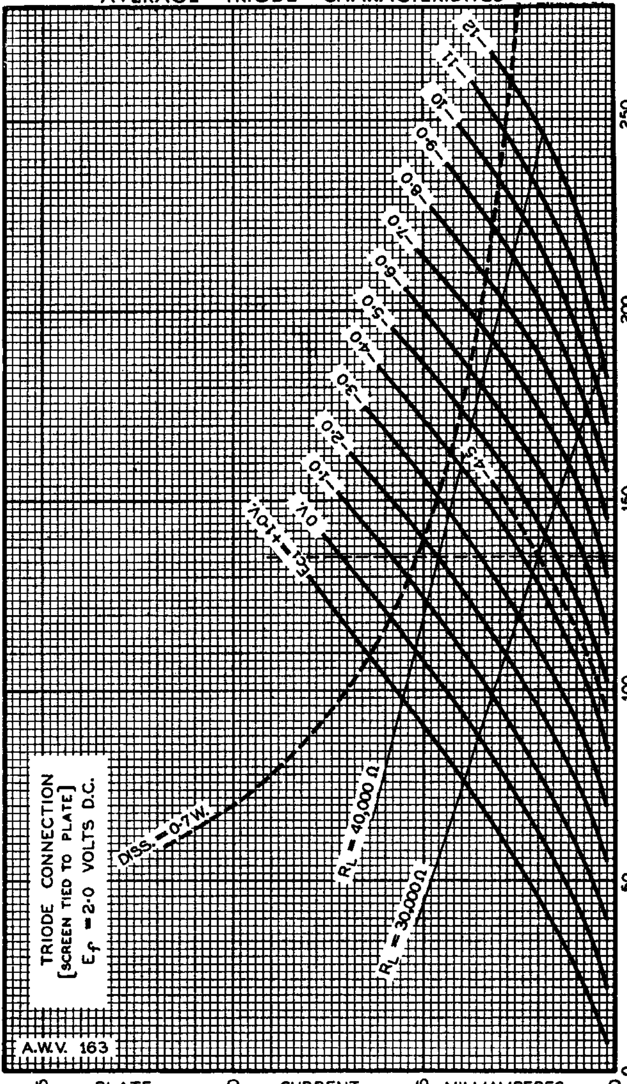


RADIOTRON

1K7-G

1K7-G SHEET 4

AVERAGE TRIODE CHARACTERISTICS



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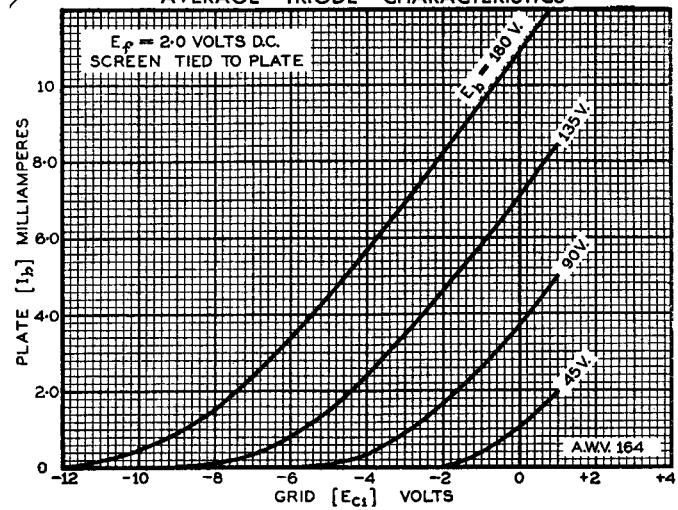
JUNE 1941 **SYDNEY, AUSTRALIA**

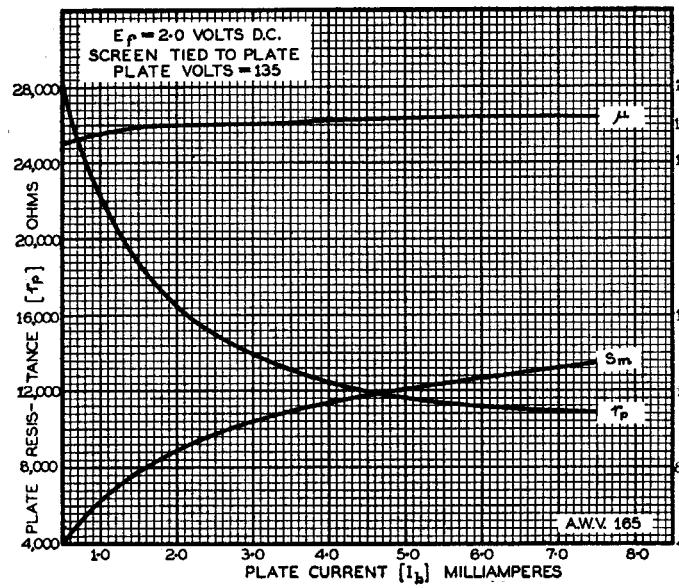
1K7-G

RADIOTRON

1K7-G

AVERAGE TRIODE CHARACTERISTICS





RESISTANCE COUPLED PENTODES

GROUP IV.

Type	Total Supply	Grid Bias Volts (Battery Types)	Screen Dropping Resistor (Megohms)	Cathode Bias Resistor Ohms (A.C. Types)	Plate Load Resistor (Megohms)	Following Grid Resistor (Megohms)	Ratio Output/Input Voltages at 400~ 0.25V. Input	Decibels Gain per Stage at 400~	Peak Voltage Output at 3% Distortion
1K4, 1K5-G	90	—1.5	0.75	—	0.25	1	59	35.4	25
						0.5	48	33.6	20
	135	—1.5	0.75	—	0.25	1	75	37.5	36
						0.5	62.5	35.9	30
	180	—1.5	1.0	—	0.25	1	88.5	39.0	48
						0.5	74	37.4	40
1K6, 1K7-G	90	—1.5	1.0	—	0.25	1	54	34.7	22
						0.5	45	33.1	18
	135	—1.5	1.0	—	0.25	1	76	37.6	34
						0.5	63	36.0	28
	180	—1.5	1.0	—	0.25	1	83	38.4	45
						0.5	69	36.8	38

GROUP V.

6C6, 6J7-G, 57, 1603	250	—	0.3	2,000	0.1	1.0	98	39.8	85
						0.5	82	38.3	78
						0.25	70	36.9	67
	400	—	0.3	2,000	0.1	1.0	105	41.4	135
						0.5	92	39.3	124
						0.25	80	38.1	106