

RADIOTRON

6K8-G

TRIODE-HEXODE CONVERTER



Heater	Coated Unipotential Cathode	
Voltage	6.3	a-c or d-c volts
Current	0.3	amp.
Direct Interelectrode Capacitances (With Standard Shield):		
Hexode Grid No.3 to Hexode Plate	0.04 μ f	
Hexode Grid No.3 to Triode Grid & Hexode Grid No.1	0.1 μ f	
Triode Grid & Hexode Grid No.1 to Triode Plate	2.0 μ f	
R.F. Input (Hexode Grid No.3 to All Other Electrodes)	5.5 μ f	
Osc. Output (Triode Plate to All Other Electrodes except Osc. Grid)	4.0 μ f	
Osc. Input (Triode Grid to All Other Electrodes except Triode Plate)	7.0 μ f	
Mixer Output (Hexode Plate to All Other Electrodes)	5.5 μ f	
Maximum Overall Length	4-7/32" to 4-15/32"	
Maximum Diameter	1-9/16"	
Bulb	ST-12	
Cap	Skirted Miniature	
Base	Small Shell Octal 8-Pin	
Pin 1-No Connection	Pin 6-Triode Plate	
Pin 2-Heater	Pin 7-Heater	
Pin 3-Hexode Plate	Pin 8-Cathode & Deflector Plates	
Pin 4-Hexode Grids #2 & #4	Cap -Hexode Grid #3	
Pin 5-Hexode Grid #1 & Triode Grid		
Mounting Position	Any	
<u>CONVERTER SERVICE</u>		
Hexode Plate Voltage	300 max.	volts
Hexode Screen (Grids #2 & #4) Voltage	150 max.	volts
Hexode Screen Supply Voltage	300 max.	volts
Hexode Control-Grid (Grid #3) Voltage	0 min.	volts
Triode Plate Voltage	125 max.	volts
Hexode Plate Dissipation	0.75 max.	watt
Hexode Screen Dissipation	0.7 max.	watt
Triode Plate Dissipation	0.75 max.	watt
Total Cathode Current	16 max.	ma.
Typical Operation:		
Heater Voltage	6.3	6.3 volts
Hexode Plate Voltage	100	250 volts
Hexode Screen Voltage	100	100 ^o volts
Hexode Control-Grid Voltage	-3	-3 volts
Triode Plate Voltage	100	100 ^o volts
Triode Grid Resistor	50000	50000 ohms
Hexode Plate Resistance	0.4	0.6 min. megohm
Conversion Transconductance	325	350 μ mhos
Hexode Control-Grid Bias		
Conver. Transcond.=2 μ mhos	-30	-30 volts
Hexode Plate Current	2.3	2.5 ma.
Hexode Screen Current	6.2	6.0 ma.
Triode Plate Current	3.8	3.8 ma.
Triode Grid & Hexode Grid No.1 Current	0.15	0.15 ma.
Total Cathode Current	12.5	12.5 ma.
Oscillator Transconductance for Triode Plate=100Volts - Triode Grid=Zero Volts	3000 μ mhos	
+ In circuits where the cathode is not directly connected to the heater, the potential difference between heater and cathode should be kept as low as possible.		
o Should be supplied through common 15000 ohm dropping resistor.		



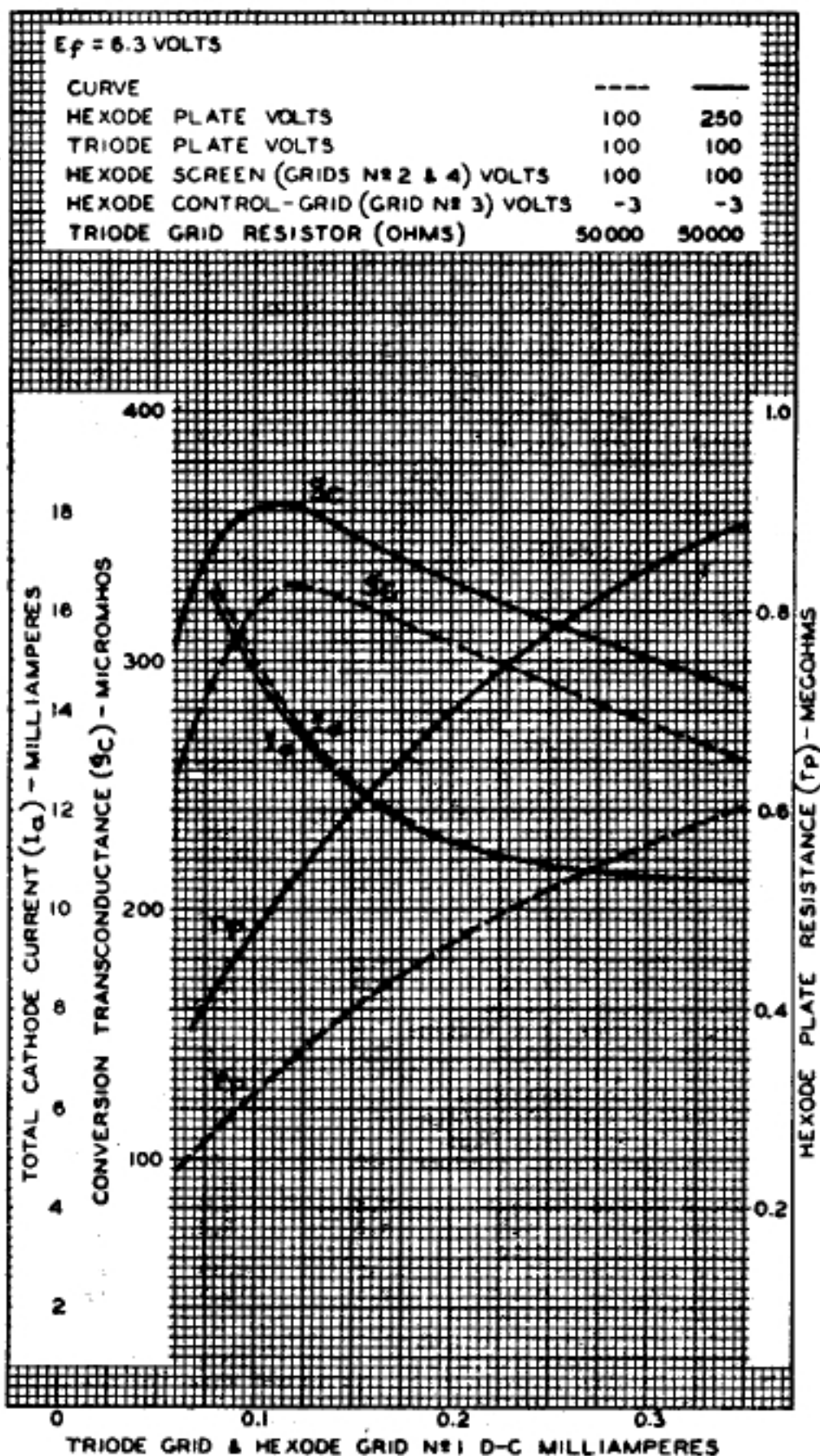
BOTTOM VIEW

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OPERATION CHARACTERISTICS



92C-4866R1

AMALGAMATED WIRELESS VALVE CO. PTY. LTD.

SEPTEMBER, 1948

SYDNEY, AUSTRALIA