

AMALGAMATED WIRELESS VALVE CO., LTD.

SYDNEY, AUSTRALIA

TYPE 6AE8

TRIODE-HEXODE FREQUENCY CONVERTER

MECHANICAL DATA

Style	miniature
Cathode	coated, unipotential
Bulb	T6 $\frac{1}{2}$
Base	Small button Noval 9 pin
Maximum overall length	2 $\frac{1}{2}$ "
Maximum diameter	7/8"
Basing	8DU
Pin Connections:	
Pin 1	screen grid
Pin 2	control grid
Pin 3	cathode
Pin 4	heater
Pin 5	heater
Pin 6	hexode plate
Pin 7	triode grid and injection grid
Pin 8	triode plate
Pin 9	internal connection. Do not use.

ELECTRICAL DATA

RATINGS -- Design Center Values

Plate Voltage	250 volts max.
Screen Voltage	100 volts max.
Oscillator Plate Voltage	100 volts max.
Cathode Current	20 mA max.

TYPICAL OPERATION

Heater Voltage	6.3 Volts
Heater Current	0.3 approx. amp.
Hexode Plate Voltage	250 Volts
Triode Plate Voltage	100 Volts
Screen Grid Voltage	75 Volts
Control Grid Voltage	0 Volts
Oscillator Grid Voltage	10 peak Volts
Oscillator Grid Resistor	50,000 ohms
Hexode Plate Current	4.5 mA

Screen Grid Current	0 0 0 0 0 0 0 0 0 0	3.4 mA
Triode Plate Current	0 0 0 0 0 0 0 0 0 0	4.5 mA
Conversion Conductance:	0 0 0 0 0 0 0 0 0 0	
At $V_{G1} = 0$	0 0 0 0 0 0 0 0 0 0	780 unhos
At $V_{G1} = 21$	0 0 0 0 0 0 0 0 0 0	7.8 unhos
Plate Resistance	0 0 0 0 0 0 0 0 0 0	0.7 Megohm