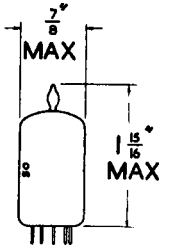
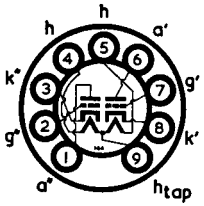


TYPE 6158
TRUSTWORTHY DOUBLE TRIODE
(Medium Mu)



The BRIMAR type 6158 is an indirectly-heated double triode, having a rigid structure to reduce microphony. It is particularly suitable as a D.C. amplifier due to its stable characteristics.

RATINGS

Heater Voltage	6.3 or	12.6	volts
Heater Current	0.6 or	0.3	amp.
Anode Voltage (Ia = 0)		500	volts max.
Anode Voltage		300	volts max.
Anode Dissipation (each section)		5	watts max.
Cathode Current		35	mA max.
Negative Grid Voltage		75	volts max.
Average Grid Current		7	mA max.
Grid Resistor (Fixed Bias)		250	kΩ max.
(Auto Bias)		1.5	MΩ max.

OPERATING CHARACTERISTICS

Va = 250 V, Vg = −4.6 V, Vh = 12.6 V (series connection)

	Min.	Bogey	Max.	
Anode Current	3.5	6.0	8.5	mA
Amplification Factor	27	32	37	
Mutual Conductance	1.7	2.35	3.0	mA/V
Anode Impedance	—	14		kΩ

OPERATION AS A PUSH-PULL ZERO BIAS CLASS B AMPLIFIER

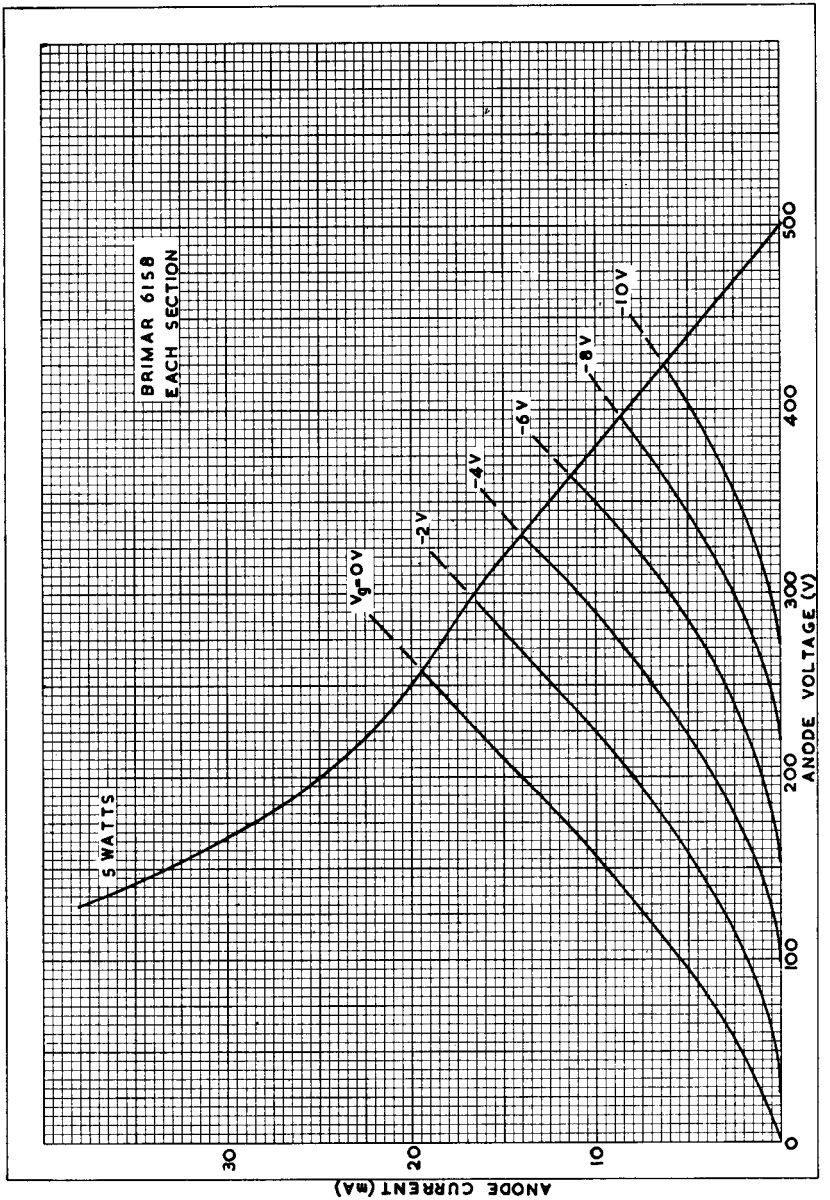
Anode Voltage	250	volts
Grid Voltage	0	volts
Anode Current (Zero Signal)	39	mA
Anode Current (Max. Signal)	43.2	mA
Output Load Impedance (Anode-Anode)	20	kΩ
R.M.S. Input Voltage	32	volts
Grid Current	12.8	mA
Total Harmonic Distortion	11.5	%
Power Output	6.7	watts

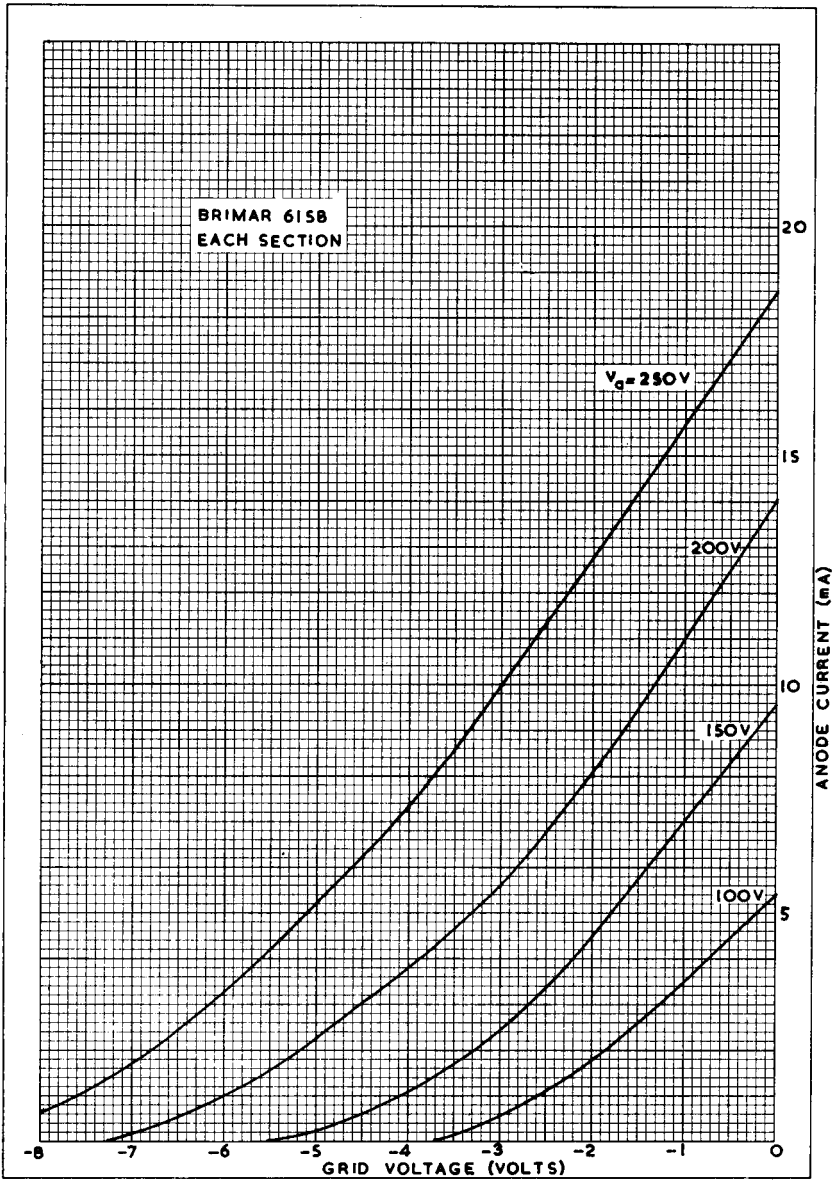
INTER-ELECTRODE CAPACITANCES*

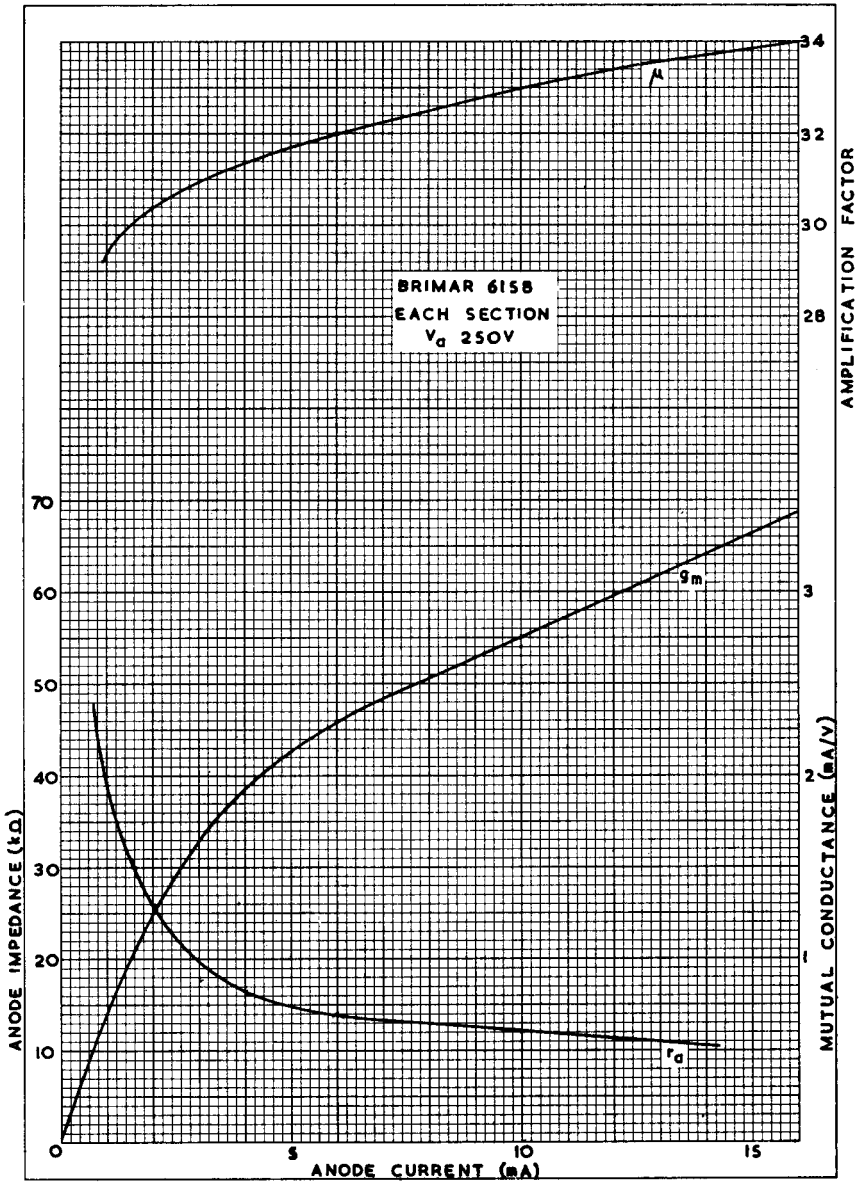
	Section 1	*Section 2*	
Input	2.2	2.2	pF
Output	2.0	2.0	pF
Grid to Anode	1.9	1.9	pF
Heater to Cathode	4.9	4.9	pF
Grid 1 to Anode 2		0.02	pF
Grid 2 to Anode 1		0.035	pF
Anode 1 to Anode 2		0.46	pF
Grid 1 to Grid 2		0.0035	pF

* *With no external shield.*

Type 6158 *is a commercial equivalent to* CV4068.


BRIMAR 6158
EACH SECTION
5 WATTS
V_g=0V
-2V
-4V
-6V
-8V
-10V
ANODE CURRENT (mA)
30
20
10
0
100
200
300
400
500
ANODE VOLTAGE (V)


BRIMAR 6158
EACH SECTION
V_a=250V
200V
150V
100V
20
15
10
5
ANODE CURRENT (mA)
-8
-7
-6
-5
-4
-3
-2
-1
0
GRID VOLTAGE (VOLTS)


BRIMAR 6158
EACH SECTION
V_a 250V
μ
g_m
r_a
34
32
30
28
3
2
1
70
60
50
40
30
20
10
0
5
10
15
ANODE IMPEDANCE (kΩ)
MUTUAL CONDUCTANCE (mA/V)
AMPLIFICATION FACTOR
ANODE CURRENT (mA)