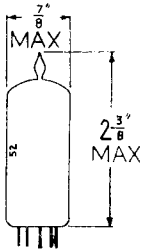
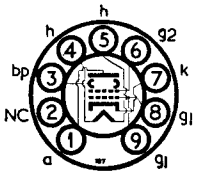


B9A (Noval) Base

Industrial Type

TYPE 5763
MINIATURE V.H.F. BEAM POWER AMPLIFIER



The BRIMAR type 5763, owing to its small size and comparatively high ratings is very suitable for use in portable V.H.F. equipment. Sufficient ventilation must be provided to ensure that the bulb temperature never exceeds 250°C.

RATINGS

Heater Voltage	6.0 volts	
Heater Current	0.75 amp.	
Anode Voltage	300 volts	Absolute Maximum
Anode Dissipation	12 watts	
Screen (g_2) Voltage	250 volts	
Screen Dissipation	2.0 watts	
Control Grid (g_1) Current	5.0 mA D.C.	
Bulb Temperature	250° C.	
Heater to Cathode Potential	100 volts max.	
D.C. Cathode Current	65 mA max.	

Frequency for above Ratings 175 Mc/s max.

INTER-ELECTRODE CAPACITANCES (No External Shield)

Input	9.5 pF
Output	4.5 pF
Control Grid to Anode	0.3 pF max.

OPERATION AS CLASS "A" AMPLIFIER

Anode Voltage	250 volts	Control Grid Voltage	−7.25 volts
Anode Current	45 mA	Anode Impedance	27,000 ohms
Screen Voltage	250 volts	Mutual Conductance	7.0 mA/V
Screen Current	4.7 mA	Amp. Factor (μ_{g1-g2})	16

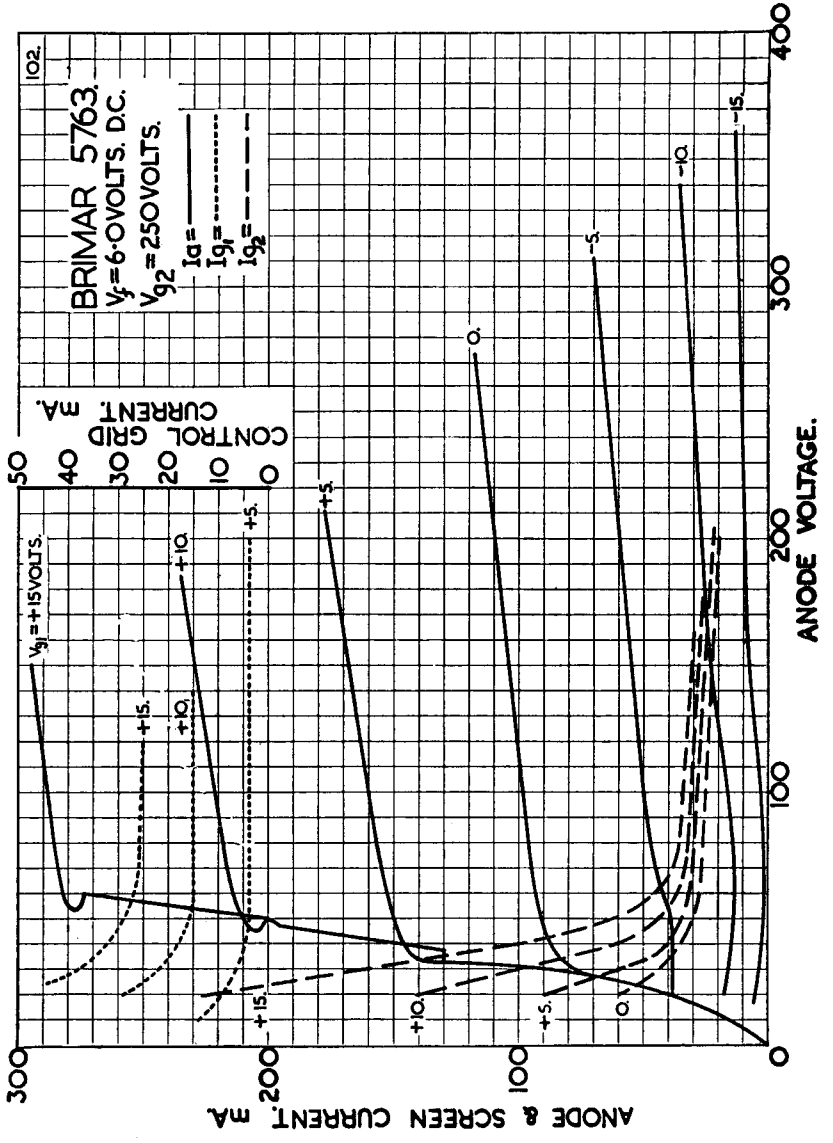
OPERATION AS OSCILLATOR OR POWER AMPLIFIER (CLASS "C" TELEGRAPHY) AT 50 Mc/s

Anode Voltage	300 volts
Anode Current	50 mA
Screen Voltage	250 volts
Screen Current	5.0 mA
Control Grid Voltage	−60 volts
Control Grid Resistor	22,000 ohms
Control Grid Current	3 mA
Peak R.F. Grid Voltage	80 volts
Input Driving Power	0.35 watts
Output Power	8.0 watts

OPERATION AS FREQUENCY MULTIPLIER

	Doubler to 175 Mc/s	*Tripler to 175 Mc/s*	
Anode Voltage	300	300	volts
Anode Current	40	35	mA
Screen Supply Voltage	300	300	volts
Series Screen Resistor	12,500	12,500	ohms
Screen Current	4.0	5.0	mA
Control Grid Voltage	−75	−100	volts
Control Grid Resistor	75,000	100,000	ohms
Peak R.F. Grid Voltage	95	120	volts
Control Grid Current	1.0	1.0	mA
Input Driving Power	0.6	0.6	watts
Output Power	3.6	2.8	watts

Type 5763 is a commercial equivalent of the CV2129.


102.
BRIMAR 5763.
V_f=6·0VOLTS. D.C.
V_{g2}=250VOLTS.
Ia=
Ig_1=
Ig_2=
CONTROL GRID CURRENT. mA.
50
40
30
20
10
0
V_{g1}=+15VOLTS.
+15.
+10.
+5.
0.
-5.
-10.
-15.
ANODE & SCREEN CURRENT. mA.
300
200
100
0
ANODE VOLTAGE.
400
300
200
100
0