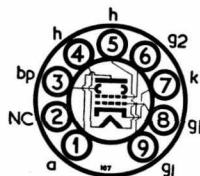


TYPE 6062 TRUSTWORTHY V.H.F. BEAM POWER AMPLIFIER



The BRIMAR type 6062, 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
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.
Hot Spot Bulb Temperature	...	...	...	...	250	°C
Heater to Cathode Potential	...	...	...	...	100	volts max.
D.C. Cathode Current	...	...	...	...	65	mA max.

(Max. Frequency for above ratings 175 Mc/s)

OPERATION AS CLASS A AMPLIFIER

$V_h = 6.0$, $V_a = 250$, $V_{g_2} = 250$, $V_{g_1} = -7.5$, $V_{g_3} = 0$, $V_{hk} = 0$

	Min.	Bogey	Max.	
Anode Current	33	45	57	mA
Screen Current		4.5	7	mA
Anode Impedance		27		k. ohms
Mutual Conductance	5.6	7.0	9.0	mA/V
Amplification Factor ($\mu_{g_1 - g_2}$)	13	16	20	

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 A FREQUENCY MULTIPLIER

	Doubler to 175 Mc/s	Triplet 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

INTER-ELECTRODE CAPACITANCES (No external shield)

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

Type 6062 is a commercial equivalent to the CV4039.

