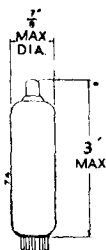
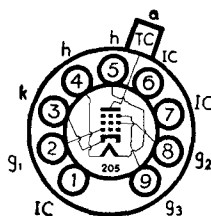


PL81/21A6



Replacement Type

TYPE PL81/21A6 MINIATURE LINE TIME BASE OUTPUT VALVE



The BRIMAR PL81/21A6 is designed for operation as the line time-base output valve in A.C./D.C. television receivers. Used in conjunction with a booster diode it is suitable for the scanning of wide angle (70°) cathode ray tubes from low H.T. rail voltages.

RATINGS

Heater Current	...	...	...	...	...	...	...	0.3 amp.
Heater Voltage	...	...	...	...	...	...	...	21.5 volts (nom.)
Anode Voltage ($I_a = 0$ mA)	...	...	...	...	...	...	...	550 volts max.
Anode Voltage	...	...	...	...	...	...	...	250 volts max.
Peak Positive Anode Pulse Voltage *	...	...	...	...	...	...	...	7,000 volts max.
Screen Supply Voltage	...	...	...	...	...	...	...	550 volts max.
Screen Voltage	...	...	...	...	...	...	...	250 volts max.
Anode Dissipation	...	...	...	...	...	...	...	8.0 watts max.
Screen Dissipation †	...	...	...	...	...	...	...	4.5 watts max.
Anode + Screen Dissipation	...	...	...	...	...	...	...	12.0 watts max.
Cathode Current	...	...	...	...	...	...	...	180 mA max.
Grid Resistor **	...	...	...	...	...	...	...	500 k ohms max.
Heater-Cathode potential	...	...	...	...	...	...	...	200 volts max.
Heater-Cathode resistor	...	...	...	...	...	...	...	20 k ohms max.

* Maximum pulse duration 15% of one cycle, with maximum of 18 μ secs.

† The screen dissipation may rise to a maximum of 6 watts during the period between the commencement of screen current flow and the instant when the anode current attains one half of its normal value.

** In line output service this may be increased to 3.3 M Ω max.

CHARACTERISTICS

Anode Voltage	...	...	...	...	170	200 volts
Suppressor (g_3) Voltage	...	...	...	...	0	0 volts
Screen (g_2) Voltage	...	...	...	...	170	200 volts
Anode Current	...	...	...	...	45	40 mA
Screen Current	...	...	...	...	3.0	2.8 mA
Control Grid Voltage	...	...	...	...	-22	-28 volts
Mutual Conductance	...	...	...	...	6.2	6.0 mA/V
Anode Impedance	...	...	...	...	10,000	11,000 ohms
Inner Amplification Factor	...	...	...	...	5.5	5.5

INTER-ELECTRODE CAPACITANCES *

Input	...	...	...	...	...	...	14.7 pF
Output	...	...	...	...	...	...	6.0 pF
Anode to Grid 1	...	...	...	...	...	...	0.8 pF max.
Grid 1 to Heater	...	...	...	...	...	...	0.2 pF max.
Anode to Cathode	...	...	...	...	...	...	0.1 pF max.

* Measured with no external shield.

