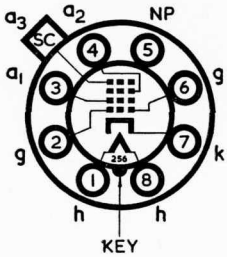
Current Equipment Type

TYPE C21AF

B8H BASE



The BRIMAR type C21AF is a rectangular 110° deflection angle teletube with tripotential electrostatic focus, an aluminized screen and an external conductive coating. The screen colour is white with a grey glass faceplate with a transmission of approximately 70 per cent.

RATINGS

Heater Current	0.3 amp.
Heater Voltage	4.0 volts (nominal)
Final Anode Voltage (V_{a3})	*16 kilovolts max. 17.6kV ab. max.
Final Anode Voltage (V_{a3})	*13 kilovolts min.
Focus Anode Voltage (V_{a2}) positive ...	*750 volts max.
Focus Anode Voltage (V_{a2}) negative ...	*500 volts max.
First Anode Voltage (V_{a1})	*750 volts max.
First Anode Voltage (V_{a1})	*500 volts min.
Grid voltage (V_g) positive	*2 volts max.
Grid voltage (V_g) negative	*150 volts max.
Heater to cathode voltage (V_{hk}) cathode positive	200 volts max.
Heater to cathode voltage (V_{hk}) cathode negative	180 volts max.
Heater to cathode voltage (V_{hk}) cathode positive	†410 volts max.
A_2 supply source impedance	1.5 MΩ max.
A_1 supply source impedance	2.5 MΩ max.
R_{gk}	1.5 MΩ max.
Diagonal deflection angle	110° approx.

* Voltage with respect to cathode.

† During equipment warm-up not exceeding 45 seconds.

OPERATING CHARACTERISTICS

V_{a3} = 16 kilovolts.

V_{a2} = 0–450 volts (adjust for optimum focus).

V_{a1} = 600 volts.

V_g for raster cut-off = −38 volts to −78 volts.

Peak to peak modulating voltage for 150 μA beam current = 30 volts.

NOTE.—All voltages measured with respect to cathode.

INTER-ELECTRODE CAPACITANCES

Grid to all	5 pF max.
Cathode to all	4 pF max.
Final anode to external coating	1 750 pF max.

NOTE.—This tube uses the standard B8H base with the longer spigot.

GENERAL NOTE.—No harmful X-ray radiation is produced by this tube when operated at final anode voltages below 16 kV. At voltages above 16 kV some shielding may be necessary to protect against prolonged exposure at close range.

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