from RTMA release #1008, AUg. 17, 1951

BRIMAR VALVES

R.M.A. REGISTRATION DATA

TYPE 50CD6G

DATE ISSUED 9. 7. 51.

50CD6G
BEAM POWER AMPLIFIER

The 50CD6G is an indirectly-heated line output tube, designed for AC/DC television service. The electrical characteristics, except for the heater rating, are similar to the 6CD6G.

MECHANICAL DATA.

Coated unipotential cathode
Outline drawing ..... 16-4 Bulb ST-16
Base B6-13
Maximum diameter ..... 2.1/16"
Maximum overall length ..... 5.11/16"
Maximum Seated height ..... 5.1/8 "
Pin connections ..... Basing Number 5BT

Pin 1 - No connection	Pin 5 - Grid No.1
Pin 2 - Heater	Pin 6 - -
Pin 3 - Cathode and Grid No.3	Pin 7 - Heater
Pin 4 - -	Pin 8 - Screen Grid

Top Cap - Anode

Mounting Position ..... Vertical, base up or down; Horizontal, with pins 2 and 7 in a vertical plane.

ELECTRICAL DATA.

Direct Inter-electrode Capacitances (with no external shield).

Grid-Plate (max) ..... 1 µµf
Input ..... 26 µµf
Output ..... 10 µµf

RATINGS (Design Centre Values)

Heater Voltage (ac or dc) ..... 50 volts
Heater current ..... 0.3 amps

60060/100

Standard Telephones and Cables Limited
BRIMAR VALVE WORKS, FOOTSCRAY, KENT, ENGLAND.

Peak heater-cathode voltage.

(a) Heater negative with respect to cathode	350 volts
(b) Heater positive with respect to cathode	350 volts

Maximum D.C. Plate Voltage	700 volts
* Peak positive - pulse plate voltage	6000 volts
* Peak negative - pulse plate voltage	-1500 volts
Maximum Grid No.2 voltage	175 volts
Maximum negative Grid No.1 voltage	-50 volts
Peak negative-pulse Grid No.1 voltage	-150 volts
Maximum plate dissipation	15 watts
Maximum Grid No.2 dissipation	3 watts
Maximum D.C. Plate current	170 mA
Maximum Bulb temperature at any point	210°C
Maximum Grid No.1 circuit resistance	1.0 megohm

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS.

Heater voltage	50 volts
Heater current	0.3 amps
Plate voltage	175 volts
Grid No.2 voltage	175 volts
Grid No.1 voltage	-30 volts
Transconductance	7500 micromhos
Plate current	90 mA
Grid No.2 current	5 mA

* The duration of the voltage pulse must not exceed 15 per cent of one horizontal scanning cycle, with a maximum duration of 10 microseconds.

60060/100A