Beam Power Tube

MAGNOVAL TYPE

ELECTRICAL

Heater Characteristics and Ratings
Voltage (AC or DC) .................. 6.3 ± 0.6 V
Current at 6.3 V .................. 1.380 A
Maximum heater-cathode voltage
Heater negative with respect to cathode:
Peak .................................. 250 V
DC component .................. 125 V
Heater positive with respect to cathode:
Peak .................................. 250 V
DC component .................. 125 V

MECHANICAL

Operating Position .................. Any
Type of Cathode .................. Coated Unipotential
Maximum Overall Length .............. 4.125 in
Maximum Seated Length .............. 3.750 in
Diameter .......................... 1.062 to 1.188 in
Envelope .......................... JEDEC T9
Cap. .......................... Skirted Miniature (JEDEC No.C1-2)
Base .......................... Small-Button Magnoval 9-Pin (JEDEC No.E9-23)

TERMINAL DIAGRAM (Bottom View)

CHARACTERISTICS, INSTANTANEOUS VALUES

Plate Voltage .................. 75 V
Grid-No.2 (Screen-Grid) Voltage ........ 200 V
Grid-No.1 (Control-Grid) Voltage .......... -10 V
Plate Current .................. 440 mA
Grid-No.2 Current .................. 37 mA

HORIZONTAL-DEFLECTION AMPLIFIER

Maximum Ratings, Design-Maximum Values

For operation in a 525-line, 30-frame system

DC Plate-Supply Voltage .................. 275 V
Peak Positive-Pulse Plate Voltage .... 7700 V
DC Grid-No.2 Voltage .................. 275 V

Indicates a change.
Average Cathode Current: 275 mA
Grid-No.2 Input: 5 W
Plate Dissipation: 17 W

MAXIMUM CIRCUIT VALUES

Grid-No.1-Circuit Resistance
Without grid current: 0.5 MΩ
With grid current: 2.2 MΩ

a Not to be tested under DC conditions.
b This rating is applicable where the duration of the voltage pulse does not exceed 15 per cent of one horizontal scanning cycle. In a 525-line, 30-frame system, 15 per cent of one horizontal scanning cycle is 10 microseconds.
c Grid-No.2 input may reach 6 watts for plate-dissipation values below 11 watts.
d An adequate bias resistor or other means is required to protect the tube in the absence of excitation.

DIMENSIONAL OUTLINE

For pin alignment use gauge No. GE9-2.
* Applies in zone starting 0.375 inch from base seat.