Beam Power Tube

GENERAL DATA

Electrical:
Heater, for Unipotential Cathode:
Voltage (AC or DC) .................................. 6.3 volts
Current .............................................. 1.2 amp
Direct Interelectrode Capacitances (Approx.):
Grid No.1 to plate .................................. 0.6 μf
Grid No.1 to cathode & grid No.3,
grid No.2, and heater ............................... 15 μf
Plate to cathode & grid No.3,
grid No.2, and heater ............................... 7 μf

Characteristics, Class A1 Amplifier:
Plate Voltage ...................................... 60 150 250 volts
Grid-No.2 Voltage ................................. 150 150 150 volts
Grid-No.1 Voltage ................................. 0 -22.5 -22.5 volts
Mu-Factor, Grid No.2 to Grid No.1 .............. 4.3 -
Plate Resistance (Approx.) ...................... - - 14500 ohms
Transconductance ................................ - - 5900 μhos
Plate Current ..................................... 260b - 57 ma
Grid-No.2 Current ................................ 26b - 2.1 ma
Grid-No.1 Voltage (Approx.) for plate ma. = 1 - - -43 volts

Mechanical:
Operating Position ................................ Any
Maximum Overall Length .......................... 3-7/8"
Seated Length ................................... 2-7/8" to 3-5/16"
Maximum Diameter ................................ 1-9/32"
Bulb .................................................. T9
Cap .............................................. Skirted Miniature (JEDEC No.C1-2, C1-3, or C1-33)
Bases (Alternates):
Intermediate-Shell Octal:
7-Pin, Arrangement 1 (JEDEC Group 1, No.B7-7)
6-Pin, Arrangement 2 (JEDEC Group 1, No.B6-81)
Short Intermediate-Shell Octal with External Barriers:
7-Pin (JEDEC Group 1, No.B7-59)
6-Pin, Arrangement 2 (JEDEC Group 1, No.B6-84)
5-Pin, Arrangement 3 (JEDEC Group 1, No.B5-187)
Basing Designation for BOTTOM VIEW .............. 6AM

Pin 1c- No Connection
Pin 2- Heater
Pin 3c- No Connection
Pin 4- Grid No.2
Pin 5- Grid No.1
Pin 7- Heater
Pin 8- Cathode, Grid No.3
Cap- Plate

Indicates a change.
HORIZONTAL-DEFLECTION AMPLIFIER

Maximum Ratings, Design-Center Values Except as Noted:

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

DC PLATE-SUPPLY VOLTAGE . . . . . 600 max. volts
PEAK POSITIVE-PULSE PLATE VOLTAGE
(Absolute maximum) . . . . 6000\textsuperscript{f} max. volts
PEAK NEGATIVE-PULSE PLATE VOLTAGE . . . 1250 max. volts
DC GRID-No.2 (SCREEN-GRID) VOLTAGE . . . 200 max. volts
PEAK NEGATIVE-PULSE GRID-No.1 (CONTROL-
GRID) VOLTAGE . . . . . . 300 max. volts
CATHODE CURRENT:
Peak . . . . . . . . . . . . . 400 max. ma
Average . . . . . . . . . . 110 max. ma
GRID-No.2 INPUT . . . . . . 2.5 max. watts
PLATE DISSIPATION\textsuperscript{g} . . . . . . . . 11 max. watts
PEAK HEATER-CATHODE VOLTAGE:
Heater negative with respect to cathode . . . 200 max. volts
Heater positive with respect to cathode . . . 200\textsuperscript{h} max. volts
BULB TEMPERATURE (At hottest point on bulb surface) . . . 220 max. °C

Maximum Circuit Values:

Grid-No.1-Circuit Resistance . . . . . . . 0.47 max. megohm

\textsuperscript{a} Without external shield.
\textsuperscript{b} This value can be measured by a method involving a recurrent wave form such that the maximum ratings of the tube will not be exceeded.
\textsuperscript{c} On the 6-pin bases, pin 1 as well as pin 6 is omitted. On the 5-pin base, pins 1 and 3 as well as pin 6 are omitted.
\textsuperscript{d} As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations," Federal Communications Commission.
\textsuperscript{e} 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.
\textsuperscript{f} Under no circumstances should this absolute value be exceeded.
\textsuperscript{g} An adequate bias resistor or other means is required to protect the tube in the absence of excitation.
\textsuperscript{h} The dc component must not exceed 100 volts.

\textsuperscript{\textdagger} Indicates a change.
AVerAGE CHARACTERISTICS

$E_p = 6.3$ VOLTS
GRID-$N^\# 2$ VOLTS = 150

PLATE (I_p) OR GRID - $N^\# 2$ ($I_{C2}$) MILLIAMPERES

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