6Y6-GA
BEAM POWER TUBE

GENERAL DATA

Electrical:
Heater, for Unipotential Cathode:
Voltage (AC or DC).......................... 6.3 volts
Current.................................. 1.25 amp
Direct Interelectrode Capacitances (Approx.):°
Grid No.1 to plate...................... 0.66 μf
Grid No.1 to cathode & grid No.3, grid No.2, and heater........... 12 μf
Plate to cathode & grid No.3, grid No.2, and heater........... 7.5 μf

Mechanical:
Operating Position........................ Any
Maximum Overall Length.............. 3-7/8"
Maximum Seated Length............... 3-5/16"
Diameter................................ 1.438" to 1.562"
Bulb.................................... T12
Base... Medium-Shell Octal 7-Pin (JEDEC Group 1, No.B7-12), or Short Medium-Shell Octal 7-Pin with External Barriers, Style B (JEDEC Group 1, No.B7-119)
Basing Designation for BOTTOM VIEW... 7S

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

AMPLIFIER — Class A

Maximum Ratings, Design-Center Values:
PLATE VOLTAGE.......................... 200 max. volts
GRID-No.2 (SCREEN-GRID)
SUPPLY VOLTAGE.......................... 200 max. volts
GRID-No.2 VOLTAGE........................ See Grid-No.2 Input
Rating Chart at front of Receiving Tube Section
GRID-No.2 INPUT:
For grid-No.2 voltages
up to 100 volts.......................... 1.75 max. watts
For grid-No.2 voltages
between 100 and 200 volts............ See Grid-No.2 Input
Rating Chart at front of Receiving Tube Section
PLATE DISSIPATION..................... 12.5 max. watts
PEAK HEATER—CATHODE VOLTAGE:
Heater negative with respect to cathode... 180 max. volts
Heater positive with respect to cathode... 180 max. volts

° Without external shield.
Maximum Circuit Values:

Grid-No.1 Circuit Resistance:
  For fixed-bias operation ... 1 max. megohm
  For cathode-bias operation ... 0.5 max. megohm

Typical Operation and Characteristics:

Plate Voltage .................. 135   200 volts
Grid-No.2 Voltage ............... 135   135 volts
Grid-No.1 Voltage ................ 13.5 -14 volts
Peak AF Grid-No.1 Voltage ...... 13.5   14 volts
Zero-Signal Plate Current ...... 58    61 ma
Max.-Signal Plate Current ...... 60    66 ma
Zero-Signal Grid-No.2 Current .. 3.5   2.2 ma
Max.-Signal Grid-No.2 Current .. 11.5   9 ma
Plate Resistance (Approx.) .... 9300  18300 ohms
Transconductance ............... 7000   7100 \(\mu\)hos
Load Resistance ................ 2000   2600 ohms
Total Harmonic Distortion ...... 10    10 %
Max.-Signal Power Output ...... 3.6    6 watts

10-59

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