

6DQ6-A

Beam Power Tube

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:		
Voltage (AC or DC)	6.3 ± 10%	volts
Current at 6.3 volts	1.2	amp
Mu-Factor, Grid No.2 to Grid No.1 for plate volts = 150, grid-No.2 volts = 150, grid-No.1 volts = 22.5		
	4.5	
Direct Interelectrode Capacitances (Approx.): ^a		
Grid No.1 to plate	0.5	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	250	volts
Grid-No.2 Voltage	150	150	volts
Grid-No.1 Voltage	0	-22.5	volts
Plate Resistance (Approx.)	-	20000	ohms
Transconductance	-	6600	μmhos
Plate Current	315 ^b	55	ma
Grid-No.2 Current	25 ^b	1.5	ma
Grid-No.1 Voltage (Approx.) for grid-No.2 volts = 150, plate ma.			
= 1, plate volts =			
250	-	-40	volts
5000	-	-100	volts

Mechanical:

Operating Position	Any
Maximum Overall Length	4-1/4"
Seated Length	3-1/2" ± 3/16"
Diameter	1.438" to 1.562" ←
Bulb	T12
Cap	Skirted Miniature (JEDEC No.C1-3)
Base	Short Medium-Shell Octal 7-Pin ←
	with External Barriers, Style A, Arrangement 1 (JEDEC No.B7-111), Short Medium-Shell Octal 7-Pin with External Barriers, Style B, Arrangement 1 (JEDEC No.B7-119), Short Medium-Shell Octal 6-Pin With External Barriers, Style A, Arrangement 2 (JEDEC No.B6-148), or Short Medium-Shell Octal 6-Pin With External Barriers, Style B, Arrangement 2 (JEDEC No.B6-122)

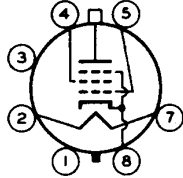
← Indicates a change.



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Basing Designation for BOTTOM VIEW. 6AM

Pin 1^c - No Connection
 Pin 2 - Heater
 Pin 3 - No Connection
 Pin 4 - Grid No.2



Pin 5 - Grid No.1
 Pin 7 - Heater
 Pin 8 - Cathode,
 Grid No.3
 Cap - Plate

HORIZONTAL-DEFLECTION AMPLIFIER

→ Maximum Ratings, Design-Maximum Values:

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

DC PLATE-SUPPLY VOLTAGE	770	max.	volts
PEAK POSITIVE-PULSE PLATE VOLTAGE ^e	6000	max.	volts
PEAK NEGATIVE-PULSE PLATE VOLTAGE	1500	max.	volts
DC GRID-No.2 (SCREEN-GRID) VOLTAGE.	220	max.	volts
PEAK NEGATIVE-PULSE GRID-No.1 VOLTAGE	330	max.	volts
CATHODE CURRENT:			
Peak	540	max.	ma
Average	155	max.	ma
GRID-No.2 INPUT	3.6	max.	watts
PLATE DISSIPATION ^f	18	max.	watts
PEAK HEATER-CATHODE VOLTAGE:			
Heater negative with respect to cathode.	200	max.	volts
Heater positive with respect to cathode.	200 ^g	max.	volts
BULB TEMPERATURE (At hottest point on bulb surface).	220	max.	°C

Maximum Circuit Values:

Grid-No.1-Circuit Resistance:
 For grid resistor-bias operation. 1 max. megohm

- ^a without external shield.
- ^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.
- ^c On the 6-pin bases, pin 1 as well as pin 6 is omitted.
- ^d As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations," Federal Communications Commission.
- ^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.
- ^f An adequate bias resistor or other means is required to protect the tube in the absence of excitation.
- ^g The dc component must not exceed 100 volts.

→ Indicates a change.



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