

ELECTRONIC TUBE REFERENCE

6DQ6A

Power - TV Horizontal Output (sweep) electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
BEAMPOWER

High-perveance beam-power pentode designed for television horizontal-deflection amplifier service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	6AM	BASE PINS	7
NOMINAL HEATER	6.3 V / 1.2 A	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

6AM - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1 – Pin 1	–	–	NC · verified
PIN2 – Pin 2	–	H – Heater	CONNECTED · verified
PIN3 – Pin 3	–	–	NC · verified
PIN4 – Pin 4	A	G2 – Screen Grid	CONNECTED · verified
PIN5 – Pin 5	A	G1 – Control Grid	CONNECTED · verified
PIN7 – Pin 7	–	H – Heater	CONNECTED · verified
PIN8 – Pin 8	A	BP – Beam-Forming Plate	CONNECTED · verified
PIN8 – Pin 8	A	K – Cathode	CONNECTED · verified

TERMINAL	SECTION	ELEMENT	STATUS
CAP1 – Top cap	A	P – Plate (Anode)	CONNECTED · verified

SECTION RATINGS

SECTION1 Beam Power	
PLATE RESISTANCE	20000 Ω
TRANSCONDUCTANCE	0.0066 S
AMPLIFICATION FACTOR	4.5
MAXIMUM PLATE VOLTAGE	700 V
MAXIMUM SCREEN VOLTAGE	200 V
MAXIMUM PLATE DISSIPATION	15 W
MAXIMUM SCREEN DISSIPATION	3 W
MAXIMUM CATHODE CURRENT	150 mA
<i>Horizontal-deflection service; 6000 V peak pulse plate rating retained as parameter.</i>	

The 6DQ6A is a high-perveance beam-power pentode designed for horizontal-deflection amplifier service in television receivers.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1965 Westinghouse Data Book

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1965 WESTINGHOUSE DATA BOOK

Section 1 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak positive plate voltage maximum	6000 V	Pulse
Peak negative pulse plate voltage maximum	-1000 V	Pulse
Average cathode current maximum	150 mA	—
Peak cathode current maximum	500 mA	Pulse
Grid2 dissipation maximum	3.2 W	—
Typical plate voltage	250 V	—
Typical grid2 voltage	150 V	—

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	6500 uS	—

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	Horizontal-deflection output amplifier	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1966 Tung Sol Electronic Tubes 2 of 4

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1966 TUNG SOL ELECTRONIC TUBES 2 OF 4

Section 1 · Beam Power

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	0.5 pF	—
Input capacitance	15 pF	—
Output capacitance	7 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak positive pulse plate voltage	6000 V	TVHorizontalDeflection;Pulse
Peak negative pulse plate voltage	1300 V	TVHorizontalDeflection;Pulse
Peak cathode current	540 mA	TVHorizontalDeflection;Pulse



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1968 General Electric Co

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1968 GENERAL ELECTRIC CO

Section 1 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterVoltageNominal	6.3 V	—
HeaterCurrentNominal	1.2 A	—
Peak Positive Pulse Plate Voltage	6000 V	HorizontalDeflection
Peak Negative Pulse Plate Voltage	1375 V	HorizontalDeflection
Peak Cathode Current	440 mA	HorizontalDeflection

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Resistance	20000 Ohm	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	6600 μ S	—



1968 Mazda Belvu

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1968 MAZDA BELVU

Section 1 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
6DQ	6 A	—
Heater voltage VÊ	6.3 V	—
Plate voltage Va	700 V	—
Tension de crête positive danode (11mlte absolue)(l) Vacr	6000 V	—
Tension de crête négative d'anode - Vacr	1375 V	—
Screen-grid voltage . sansaces VE	200 V	—
Tension négative de gulle n° 1 “ - VE	50 V	—
Tension négative de crête de gnlle n° 1 ...-Vg,er	300 V	—
Courant moyen de cathode ...n ÎE	140 mA	—
Courant de crête de cathode remoun IKCT	440 mA	—
Plate dissipation (2) ... Pa	15 W	—
Tension de crête entre filament et cathode (3) Vfker	200 V	—
Plate voltage Vă 60 150	250 V	—
Screen-grid voltage..... V8 150 150	150 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Tension de grille ne 1 ... Ve; 0 -22,5	-22.5 V	—
Résistance interné s P	20 kΩ	—
Transconductance s .5	66 mA/V	—
Courant d' anode ... Ia 300(4)	75 mA	—
Courant de grille n° 2 ... 18 27(4)	2.4 mA	—
courant d'anode de 1 mA Vg,bl Ū .i	-46 V	—
pas dépasser	100 V	—
Tension d'ANOËE ccrrenremeninenmennnnnnnnnŪ Va	375 V	—
Screen-grid voltage Ve	200 V	—
'Tension de grille n° ! Vg,;	-30 V	—
Tension d'entrée, creteà crete ; 2Ve cr	60 V	—
Plate current n Ia	145 mA	—
Courant de grille ne 2 R Ig	10 mA	—
se nn PR	10 W	—
Screen-grid dissipation (par tube) aucsocacecosacees PE	1 W	—
Puissance de sortie (sur bobine mobile)..... Ps	36 W	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Capacitance d'Entrée ... reercemensnnnnuu Ce	15 pF	InterelectrodeCapacitance

TUBE TINKER

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and their source documents.

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