



ELECTRONIC TUBE REFERENCE

6BQ6GA

Power - TV Horizontal Output (sweep) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

BEAMPOWER

Improved beam-power horizontal-output tube for television receivers, providing the repetitive current switching and energy transfer required by magnetic line-deflection circuits.

GENERAL CHARACTERISTICS

BASE DESIGNATION	6AM	BASE PINS	6
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	14500 Ω
TRANSCONDUCTANCE	0.0059 S
MAXIMUM PLATE VOLTAGE	700 V
MAXIMUM SCREEN VOLTAGE	175 V
MAXIMUM PLATE DISSIPATION	11 W
MAXIMUM SCREEN DISSIPATION	2.5 W
MAXIMUM CATHODE CURRENT	110 mA
<i>Promoted from the printed maximum-rating/characteristic columns; additional operating-point data retained as section parameters.</i>	

Beam-power horizontal-deflection output tube for television receivers.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

195X General Electric Essential Characteristics

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

195X GENERAL ELECTRIC ESSENTIAL CHARACTERISTICS

Section 1 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	250 V	HorizontalDeflection
Screen voltage	150 V	HorizontalDeflection
Control-grid voltage	-22.5 V	HorizontalDeflection
Plate current	55 mA	HorizontalDeflection
Screen current	2.1 mA	HorizontalDeflection
Positive pulse plate voltage maximum	6100 V	HorizontalDeflection
Plate dissipation maximum	11 W	HorizontalDeflection
Screen dissipation maximum	2.5 W	HorizontalDeflection
DC cathode current maximum	110 mA	HorizontalDeflection

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	20000 Ω	HorizontalDeflection
Transconductance	5500 μS	HorizontalDeflection

SOURCE OPERATING CONDITIONS

1965 Sylvania Electronic Tubes Vol3

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

1965 SYLVANIA ELECTRONIC TUBES VOL3

Section 1 · Beam Power

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	—
Heater current	1.2 A	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	700 V	—
Maximum screen voltage	175 V	—
Maximum plate dissipation	11 W	—
Maximum screen dissipation	2.5 W	—
Maximum positive control-grid voltage	0 V	—

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Service	Horizontal deflection amplifier	—

TUBE TINKER
ELECTRON TUBE DATABASE

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
Peak Positive Pulse Plate Voltage	6000 V	HorizontalDeflection
Peak Negative Pulse Plate Voltage	1250 V	HorizontalDeflection
Typical Plate Voltage	250 V	—
Typical Screen Voltage	150 V	—