



ELECTRONIC TUBE REFERENCE

6BQ6GTB

Power - TV Horizontal Output (sweep) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
BEAMPOWER

Later 6BQ6-family beam-power horizontal-output tube for color and monochrome television receivers, combining substantial positive and negative pulse tolerance for demanding flyback operation.

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	600 V
MAXIMUM SCREEN VOLTAGE	200 V
MAXIMUM PLATE DISSIPATION	11 W
MAXIMUM SCREEN DISSIPATION	2.5 W
MAXIMUM CATHODE CURRENT	110 mA
Published promoted values applied where applicable; additional table data retained as parameters.	

Beam power tube for horizontal-deflection amplifier service in color and black-and-white television receivers. It is an explicit heater variant/co-designation in 25BQ6GTB.pdf.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1961 Tung Sol

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

1961 TUNG SOL

Section 1 · Beam Power

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Current	57 mA	Published operating/characteristic table
Screen Current	2.1 mA	Published operating/characteristic table
Transconductance	5900 μ S	Published operating/characteristic table



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	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum positive control-grid voltage	0 V	—

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


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1966 Tung Sol Electronic Tubes 1 of 4

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

1966 TUNG SOL ELECTRONIC TUBES 1 OF 4

Section 1 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum peak positive plate voltage	6000 V	HorizontalDeflection
Maximum peak negative plate voltage	2250 V	HorizontalDeflection
Plate current	55 mA	HorizontalDeflection

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	14.5 kOhm	—


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

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	—



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

SOURCE PDF

1971 RCA HB3 Binder 4 of 7

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

1971 RCA HB3 BINDER 4 OF 7

Section 1 · Beam Power

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Voltage (AC or DC) – published value 1	6 V	Published datasheet value; multiple values represent separate source-table limits or conditions.
Voltage (AC or DC) – published value 2	3 V	Published datasheet value; multiple values represent separate source-table limits or conditions.
Current – published value 1	1 A	Published datasheet value; multiple values represent separate source-table limits or conditions.
Current – published value 2	2 A	Published datasheet value; multiple values represent separate source-table limits or conditions.
Grid No.1 to plate	6	Published datasheet value; multiple values represent separate source-table limits or conditions.
grid No.2, and heater	15	Published datasheet value; multiple values represent separate source-table limits or conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
grid No.2, and heater	7	Published datasheet value; multiple values represent separate source-table limits or conditions.
Pi ate Voltage – published value 1	60 V	Published datasheet value; multiple values represent separate source-table limits or conditions.
Pi ate Voltage – published value 2	150 V	Published datasheet value; multiple values represent separate source-table limits or conditions.
Pi ate Voltage – published value 3	250 V	Published datasheet value; multiple values represent separate source-table limits or conditions.
Grid-No.2 Voltage – published value 1	150 V	Published datasheet value; multiple values represent separate source-table limits or conditions.
Grid-No.2 Voltage – published value 2	150 V	Published datasheet value; multiple values represent separate source-table limits or conditions.
Grid-No.2 Voltage – published value 3	150 V	Published datasheet value; multiple values represent separate source-table limits or conditions.
Grid-No.1 Voltage – published value 1	0 V	Published datasheet value; multiple values represent separate source-table limits or conditions.
Grid-No.1 Voltage – published value 2	-22.5 V	Published datasheet value; multiple values represent separate source-table limits or conditions.
Grid-No.1 Voltage – published value 3	-22.5 V	Published datasheet value; multiple values represent separate source-table limits or conditions.
Mu-Factor, Grid No.2 to Grid No.1	4.3	Published datasheet value; multiple values represent separate source-table limits or conditions.
Plate Resistance (Approx)	14500 ohm	Published datasheet value; multiple values represent separate source-table limits or conditions.
Transconductance	5900	Published datasheet value; multiple values represent separate source-table limits or conditions.
Plate Current – published value 1	260 mA	Published datasheet value; multiple values represent separate source-table limits or conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Current – published value 2	57 mA	Published datasheet value; multiple values represent separate source-table limits or conditions.
Grid-No.2 Current – published value 1	26 mA	Published datasheet value; multiple values represent separate source-table limits or conditions.
Grid-No.2 Current – published value 2	2.1 mA	Published datasheet value; multiple values represent separate source-table limits or conditions.
for plate ma. = 1 – published value 1	1 V	Published datasheet value; multiple values represent separate source-table limits or conditions.
for plate ma. = 1 – published value 2	-43 V	Published datasheet value; multiple values represent separate source-table limits or conditions.
Pin 1~ No Connection © – published value 1	1	Published datasheet value; multiple values represent separate source-table limits or conditions.
Pin 1~ No Connection © – published value 2	5	Published datasheet value; multiple values represent separate source-table limits or conditions.
Pin 2 -Heater – published value 1	2	Published datasheet value; multiple values represent separate source-table limits or conditions.
Pin 2 -Heater – published value 2	7	Published datasheet value; multiple values represent separate source-table limits or conditions.
Pin 4 -Grid No.2	4	Published datasheet value; multiple values represent separate source-table limits or conditions.
9 An adequate bias resistor or other means is required to protect the	9	Published datasheet value; multiple values represent separate source-table limits or conditions.

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
DC PLATE-SUPPLY VOLTAGE	600 V	Published datasheet value; multiple values represent separate source-table limits or conditions.
PEAK NEGATIVE-PULSE PLATE VOLTAGE	1250 V	Published datasheet value; multiple values represent separate source-table limits or conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
DC GRID-No.2 (SCREEN-GRID) VOLTAGE	200 V	Published datasheet value; multiple values represent separate source-table limits or conditions.
GRID) VOLTAGE	300 V	Published datasheet value; multiple values represent separate source-table limits or conditions.
GRID-No.2 INPUT	2.5 mA	Published datasheet value; multiple values represent separate source-table limits or conditions.
PLATE DISSIPATIONS	11 mA	Published datasheet value; multiple values represent separate source-table limits or conditions.
Heater negative with respect to cathode	200 V	Published datasheet value; multiple values represent separate source-table limits or conditions.
Heater positive with respect to cathode	200 V	Published datasheet value; multiple values represent separate source-table limits or conditions.
Grid-No.1-Circuit Resistance – published value 1	0 mA	Published datasheet value; multiple values represent separate source-table limits or conditions.
Grid-No.1-Circuit Resistance – published value 2	47 mA	Published datasheet value; multiple values represent separate source-table limits or conditions.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1975 RCA RC30

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

1975 RCA RC30

Section 1 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater-Cathode Voltage:	11 s	Other
Peak value	200 V	Other;PublishedValue1
Peak value	200 V	Other;PublishedValue2
Peak value	200 V	Other;PublishedValue3

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Average value	100 V	Other;PublishedValue1
Average value	100 V	Other;PublishedValue2
Average value	100 V	Other;PublishedValue3
DC Plate Voltage	600 V	MaximumRating
Peak Positive-Pulse Plate Voltage* (Absolute Maximum)	6000 V	MaximumRating
Peak Negative-Pulse Plate Voltage	1260 V	MaximumRating
DC Grid-No	2 V	MaximumRating;PublishedValue1
DC Grid-No	200 V	MaximumRating;PublishedValue2
Peak Negative-Pulse Grid-No.1 (Control-Grid) Voltage	300 V	MaximumRating
Peak Cathode Current	400 mA	MaximumRating
Average Cathode Current	110 mA	MaximumRating
Plate Dissipation"	11 W	MaximumRating
Grid-No	2 W	MaximumRating;PublishedValue1

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate to Cathode, Heater, Grid No	2 pF	Capacitance;PublishedValue1
Plate to Cathode, Heater, Grid No	3 pF	Capacitance;PublishedValue2
Plate to Cathode, Heater, Grid No	7 pF	Capacitance;PublishedValue3

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	60 V	Characteristic;PublishedValue1
Plate Voltage	150 V	Characteristic;PublishedValue2
Plate Voltage	250 V	Characteristic;PublishedValue3
Grid-No	2 V	Characteristic;PublishedValue1
Grid-No	150 V	Characteristic;PublishedValue2
Grid-No	150 V	Characteristic;PublishedValue3
Grid-No	150 V	Characteristic;PublishedValue4
Grid-No	1 V	Characteristic;PublishedValue1

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-No	0 V	Characteristic;PublishedValue2
Grid-No	22.5 V	Characteristic;PublishedValue3
Grid-No	-22.5 V	Characteristic;PublishedValue4
Plate Resistance (Approx.) –	14500 ohm	Characteristic
Plate Current	260 mA	Characteristic;PublishedValue1
Plate Current	57 mA	Characteristic;PublishedValue2
Grid-No	2 mA	Characteristic;PublishedValue1
Grid-No	26 mA	Characteristic;PublishedValue2
Grid-No	2.1 mA	Characteristic;PublishedValue3
Grid-No	1 mA	Characteristic;PublishedValue1
Grid-No	1 mA	Characteristic;PublishedValue2
Published value	-43 V	Characteristic

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes,
and their source documents.

[Catalog](#) [Tube types](#) [Full books](#) [Blog](#) [Feedback & corrections](#)

© 2026 Tube Tinker