



ELECTRONIC TUBE REFERENCE

25BQ6GT

Power - TV Horizontal Output (sweep) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

BEAMPOWER

Beam pentode designed specifically for television horizontal-deflection amplifier service, with a 5500-volt positive plate-pulse rating.

GENERAL CHARACTERISTICS

BASE DESIGNATION	6AM	BASE PINS	7
NOMINAL HEATER	25 V / 300 mA	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	0.0055 S
AMPLIFICATION FACTOR	4.3
MAXIMUM PLATE VOLTAGE	550 V
MAXIMUM SCREEN VOLTAGE	175 V
MAXIMUM PLATE DISSIPATION	11 W
MAXIMUM SCREEN DISSIPATION	2.5 W
MAXIMUM CATHODE CURRENT	110 mA
Horizontal-deflection beam-power section.	

Beam pentode designed specifically for television horizontal-deflection amplifier service.

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

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input capacitance	15 pF	—
Output capacitance	7.5 pF	—
Grid-to-plate capacitance	0.6 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	250 V	HorizontalDeflection
Screen-grid voltage	150 V	HorizontalDeflection
Grid voltage	-22.5 V	HorizontalDeflection
Plate current	55 mA	HorizontalDeflection
Screen-grid current	2.1 mA	HorizontalDeflection
Plate voltage	60 V	HorizontalDeflection;PeakDrive
Screen-grid voltage	150 V	HorizontalDeflection;PeakDrive
Grid voltage	0 V	HorizontalDeflection;PeakDrive
Plate current	225 mA	HorizontalDeflection;PeakDrive
Screen-grid current	25 mA	HorizontalDeflection;PeakDrive
Maximum positive pulse plate voltage	5500 V	HorizontalDeflection;Pulse

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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	25 V	Nominal
Heater current	300 mA	Nominal
Maximum peak positive plate surge voltage	5500 V	HorizontalDeflection
Maximum peak negative grid 1 surge voltage	-160 V	HorizontalDeflection
Maximum plate current	110 mA	HorizontalDeflection
Maximum grid 2 input	2.8 W	HorizontalDeflection
Plate voltage	250 V	ClassA
Screen voltage	150 V	ClassA
Grid 1 voltage	-22.5 V	ClassA

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate current	55 mA	ClassA
Grid 2 current	2.1 mA	ClassA
Transconductance	5500 uS	ClassA
Grid-2-to-grid-1 amplification factor	4.5	ClassA

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid 1 to plate	0.95 pF	Direct interelectrode capacitance
Input capacitance	14 pF	Direct interelectrode capacitance
Output capacitance	9.5 pF	Direct interelectrode capacitance



1966 Tung Sol Electronic Tubes 3 of 4

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

1966 TUNG SOL ELECTRONIC TUBES 3 OF 4
Section 1 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
DC plate-supply voltage	550 V	HorizontalDeflection
Peak positive pulse plate voltage	5500 V	HorizontalDeflection
Peak negative pulse plate voltage	-1250 V	HorizontalDeflection
Maximum grid #2 voltage	175 V	HorizontalDeflection
Peak negative grid #1 voltage	-300 V	HorizontalDeflection
Average cathode current	110 mA	HorizontalDeflection
Peak cathode current	400 mA	HorizontalDeflection
Plate voltage	250 V	AverageCharacteristics
Grid #2 voltage	150 V	AverageCharacteristics
Plate current	55 mA	AverageCharacteristics
Grid #2 current	2.1 mA	AverageCharacteristics

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	20000 ohm	AverageCharacteristics
Transconductance	5500 uS	AverageCharacteristics
Triode amplification factor	4.3	TriodeConnection

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid #1-to-plate capacitance	0.6 pF	—
Input capacitance	16 pF	—
Output capacitance	7 pF	—



TUBE TINKER

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