

ELECTRONIC TUBE REFERENCE

5V6GT

Power - Beam (NOT sweep) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
BEAMPOWER

Beam-power amplifier for output stages of 600-mA series-heater television receivers, electrically equivalent to the 6V6GT except for heater ratings.

GENERAL CHARACTERISTICS

BASE DESIGNATION	7AC	BASE PINS	—
NOMINAL HEATER	4.7 V / 600 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

7AC - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1 — Pin 1	—	—	NC · verified
PIN2 — Pin 2	—	H — Heater	CONNECTED · verified
PIN3 — Pin 3	A	P — Plate (Anode)	CONNECTED · 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

SECTION RATINGS

SECTION1 Beam Power	
PLATE RESISTANCE	50000 Ω
TRANSCONDUCTANCE	0.0041 S
MAXIMUM PLATE VOLTAGE	315 V
MAXIMUM SCREEN VOLTAGE	285 V
MAXIMUM PLATE DISSIPATION	12 W
MAXIMUM SCREEN DISSIPATION	2 W
MAXIMUM CATHODE CURRENT	105 mA
<i>Maximum plate/screen ratings and representative published characteristics promoted; multiple operating modes are retained separately in TUBE_SECTION_PARAMETER.</i>	

5V6GT is a BeamPower device. Beam-power amplifier for the output stage of 600 mA series-heater television receivers; electrically identical to 6V6GT except heater ratings.

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
Heater voltage	4.7 V	Published condensed-characteristics chart
Heater current	600 mA	Published condensed-characteristics chart
Plate voltage	315 V	ClassA
Screen voltage	225 V	ClassA
Control-grid voltage	-13 V	ClassA
Plate current	34 mA	ClassA
Screen current	2.2 mA	ClassA
Load resistance	8500 Ω	ClassA
Power output	5.5 W	ClassA
Plate voltage	250 V	ClassA
Screen voltage	250 V	ClassA
Control-grid voltage	-12.5 V	ClassA
Plate current	45 mA	ClassA
Screen current	4.5 mA	ClassA
Load resistance	5000 Ω	ClassA
Power output	4.5 W	ClassA
Plate voltage	285 V	ClassAB PushPull TwoTubes
Screen voltage	285 V	ClassAB PushPull TwoTubes
Control-grid voltage	-19 V	ClassAB PushPull TwoTubes
Plate current	70 mA	ClassAB PushPull TwoTubes
Screen current	4 mA	ClassAB PushPull TwoTubes

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Load resistance	8000 Ω	ClassAB PushPull TwoTubes
Power output	14 W	ClassAB PushPull TwoTubes
Plate voltage	250 V	TriodeConnection
Screen voltage	250 V	TriodeConnection
Control-grid voltage	-15 V	TriodeConnection
Plate current	70 mA	TriodeConnection
Screen current	5 mA	TriodeConnection
Maximum positive pulse plate voltage	1200 V	TVVerticalDeflection
Maximum DC cathode current	35 mA	TVVerticalDeflection

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	80000 Ω	ClassA
Transconductance	3750 μS	ClassA
Plate resistance	50000 Ω	ClassA
Transconductance	4100 μS	ClassA
Plate resistance	1960 Ω	TriodeConnection
Transconductance	5000 μS	TriodeConnection
Amplification factor	9.8	TriodeConnection



SOURCE DATA APPENDIX

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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
ElectricalCharacteristicsReference	6V6GT except heater ratings	—



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

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	0.7 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	250 V	ClassA
Plate voltage	250 V	ClassAB;PushPull;TwoTubes
Output power	10 W	ClassAB;PushPull;TwoTubes

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	3700 uS	ClassA
Triode amplification factor	9.8 ratio	TriodeConnection
Triode plate resistance	1960 Ohm	TriodeConnection



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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterOrFilamentVoltage	5 V	—
HeaterOrFilamentCurrent	600 mA	—
Transconductance	3750 μ S	—
Input Capacitance	8.5 pF	—
Output Capacitance	8.5 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	250 V	ClassA
Screen Voltage	250 V	ClassA
Plate Current	45 mA	ClassA
Screen Current	5 mA	ClassA
Load Resistance	5000 ohm	ClassA
Power Output	4.5 W	ClassA
PushPullPowerOutput	14 W	TwoTubes;PushPull;ClassAB
Grid Voltage	-12.5 V	ClassA



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

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	0.7 pF	—
Input capacitance	9 pF	—
Output capacitance	7.5 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	250 V	ClassA; OneTube
Screen voltage	250 V	ClassA; OneTube
Grid voltage	-12.5 V	ClassA; OneTube
Zero-signal plate current	45 mA	ClassA; OneTube
Maximum-signal plate current	47 mA	ClassA; OneTube
Load resistance	5 kOhm	ClassA; OneTube
Power output	4.5 W	ClassA; OneTube
Plate voltage	265 V	PushPull; TwoTubes
Plate-to-plate load resistance	8 kOhm	PushPull; TwoTubes
Power output	14 W	PushPull; TwoTubes
Plate voltage	250 V	TriodeConnection
Plate current	49.5 mA	TriodeConnection

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	4100 uS	ClassA; OneTube
Transconductance	5000 uS	TriodeConnection
Amplification factor	9.6	TriodeConnection
Plate resistance	1.96 kOhm	TriodeConnection