



ELECTRONIC TUBE REFERENCE

6V6GTA

Power - Beam (NOT sweep) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

BEAMPOWER

Higher-rated 6V6-family beam-power pentode for audio-output service, electrically related to the 6V6GT with revised design-maximum ratings.

GENERAL CHARACTERISTICS

BASE DESIGNATION	EIA 7AC	BASE PINS	8
NOMINAL HEATER	6.3 V / 450 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Beam Power	
PLATE RESISTANCE	50000 Ω
TRANSCONDUCTANCE	0.0041 S
MAXIMUM PLATE VOLTAGE	350 V
MAXIMUM SCREEN VOLTAGE	315 V
MAXIMUM PLATE DISSIPATION	14 W
MAXIMUM SCREEN DISSIPATION	2.2 W
MAXIMUM CATHODE CURRENT	50 mA
Class A design-maximum values promoted; triode-connected vertical-deflection values preserved separately.	

6V6GTA is a BeamPower vacuum tube documented in the RCA Receiving Tube Manual. The supplied excerpt was reviewed for heater data, section arrangement, maximum ratings, electrical characteristics, interelectrode capacitances, typical operating conditions, and stated applications.



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](#)

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

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	0.7 pF	—
Input capacitance	9 pF	—
Output capacitance	8.5 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	250 V	ClassA
Grid #2 voltage	250 V	ClassA
Grid #1 voltage	-12.5 V	ClassA
Zero-signal plate current	45 mA	ClassA
Zero-signal grid #2 current	4.5 mA	ClassA
Load resistance	5000 ohm	ClassA
Maximum-signal power output	4.5 W	ClassA
Peak positive plate voltage	1200 V	VerticalDeflection;TriodeConnection
Peak negative grid voltage	-250 V	VerticalDeflection;TriodeConnection
Peak cathode current	105 mA	VerticalDeflection;TriodeConnection
Heater warm-up time	11 s	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	50000 ohm	ClassA
Transconductance	4100 uS	ClassA



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
Plate Voltage	250 V	ClassA
Screen Voltage	250 V	ClassA
Peak Positive Pulse Plate Voltage	1200 V	VerticalDeflection,TriodeConnection
Vertical-Deflection Plate Dissipation	10 W	VerticalDeflection,TriodeConnection

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Triode-Connection Amplification Factor	9.8	TriodeConnection
Triode-Connection Plate Resistance	1960 ohm	TriodeConnection
Triode-Connection Transconductance	5000 uS	TriodeConnection



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

SOURCE PDF

1971 RCA HB3 Binder 5 of 7

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

1971 RCA HB3 BINDER 5 OF 7

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	—
Heater current	450 mA	—
Plate voltage	250 V	ClassA
Screen voltage	250 V	ClassA
Plate current	45 mA	ClassA
Power output	4.5 W	ClassA

Characteristic		
Parameter	Published Value	Condition / Note
Plate resistance	50000 ohm	ClassA
Transconductance	4100 uS	ClassA

Capacitance		
Parameter	Published Value	Condition / Note
Grid-to-plate capacitance	0.4 pF	—
Input capacitance	9 pF	—
Output capacitance	7.5 pF	—



SOURCE DATA APPENDIX

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 Warm-up Time (Average) —	11 s	Other
Peak value	200 V	Other;PublishedValue1
Peak value	200 V	Other;PublishedValue2
Peak value	200 V	Other;PublishedValue3
Average value	100 V	Other;PublishedValue1
Average value	100 V	Other;PublishedValue2
Average value	100 V	Other;PublishedValue3
Plate Voltage	350 V	MaximumRating
Grid-No	2 V	MaximumRating;PublishedValue1
Grid-No	315 V	MaximumRating;PublishedValue2
Plate Dissipation	14 W	MaximumRating
Grid-No	2 W	MaximumRating;PublishedValue1

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-No	2.2 W	MaximumRating;PublishedValue2
Plate Voltage	180 V	TypicalOperation;PublishedValue1
Plate Voltage	250 V	TypicalOperation;PublishedValue2
Plate Voltage	315 V	TypicalOperation;PublishedValue3
Grid-No	2 V	TypicalOperation;PublishedValue1
Grid-No	180 V	TypicalOperation;PublishedValue2
Grid-No	250 V	TypicalOperation;PublishedValue3
Grid-No	225 V	TypicalOperation;PublishedValue4
Peak AF Grid-No.l Voltage	-8.5 V	TypicalOperation;PublishedValue1
Peak AF Grid-No.l Voltage	12.5 V	TypicalOperation;PublishedValue2
Peak AF Grid-No.l Voltage	-13 V	TypicalOperation;PublishedValue3
Published value	8.5 V	TypicalOperation;PublishedValue1
Published value	12.5 V	TypicalOperation;PublishedValue2
Published value	13 V	TypicalOperation;PublishedValue3
Zero-Signal Plate Current	29 mA	TypicalOperation;PublishedValue1
Zero-Signal Plate Current	45 mA	TypicalOperation;PublishedValue2
Zero-Signal Plate Current	34 mA	TypicalOperation;PublishedValue3
Maximum-Signal Plate Current	30 mA	TypicalOperation;PublishedValue1
Maximum-Signal Plate Current	47 mA	TypicalOperation;PublishedValue2
Maximum-Signal Plate Current	35 mA	TypicalOperation;PublishedValue3
Zero-Signal Grid-No	2 mA	TypicalOperation;PublishedValue1
Zero-Signal Grid-No	3 mA	TypicalOperation;PublishedValue2
Zero-Signal Grid-No	4.5 mA	TypicalOperation;PublishedValue3
Zero-Signal Grid-No	2.2 mA	TypicalOperation;PublishedValue4
Maximum-Signal Grid-No	2 mA	TypicalOperation;PublishedValue1
Maximum-Signal Grid-No	4 mA	TypicalOperation;PublishedValue2
Maximum-Signal Grid-No	7 mA	TypicalOperation;PublishedValue3
Maximum-Signal Grid-No	6 mA	TypicalOperation;PublishedValue4
Plate Resistance (Approx.)	50000 ohm	TypicalOperation;PublishedValue1
Plate Resistance (Approx.)	50000 ohm	TypicalOperation;PublishedValue2
Plate Resistance (Approx.)	80000 ohm	TypicalOperation;PublishedValue3
Transconductance	3700 uS	TypicalOperation;PublishedValue1

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	4100 uS	TypicalOperation;PublishedValue2
Transconductance	3750 uS	TypicalOperation;PublishedValue3
Load Resistance	5500 ohm	TypicalOperation;PublishedValue1
Load Resistance	5000 ohm	TypicalOperation;PublishedValue2
Load Resistance	8500 ohm	TypicalOperation;PublishedValue3

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid No.1 to Plate	0 pF	Capacitance;PublishedValue1
Grid No.1 to Plate	3 pF	Capacitance;PublishedValue2
Grid No.1 to Plate	0 pF	Capacitance;PublishedValue3
Grid No.1 to Plate	7 pF	Capacitance;PublishedValue4
Grid No	3 pF	Capacitance;PublishedValue1
Grid No	10 pF	Capacitance;PublishedValue2
Grid No	9 pF	Capacitance;PublishedValue3
Grid No	3 pF	Capacitance;PublishedValue1
Grid No	11 pF	Capacitance;PublishedValue2
Grid No	7.5 pF	Capacitance;PublishedValue3

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