

ELECTRONIC TUBE REFERENCE

6GC5

Power - Beam (NOT sweep) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

BEAMPOWER

Beam-power tube for television receiver applications and audio-frequency output service, providing substantial plate dissipation for sound power amplification.

GENERAL CHARACTERISTICS

BASE DESIGNATION	9EU	BASE PINS	9
NOMINAL HEATER	6.3 V / 1.2 A	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

9EU - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1	–	G2 – Screen Grid	CONNECTED
PIN3	–	G1 – Control Grid	CONNECTED
PIN4	–	H – Heater	CONNECTED
PIN5	–	H – Heater	CONNECTED
PIN6	–	G1 – Control Grid	CONNECTED
PIN7	–	G3 – Suppressor Grid	CONNECTED
PIN7	–	K – Cathode	CONNECTED
PIN8	–	G2 – Screen Grid	CONNECTED
PIN9	–	P – Plate (Anode)	CONNECTED

SECTION RATINGS

SECTION1 Beam Power	
PLATE RESISTANCE	13000 Ω
TRANSCONDUCTANCE	0.008 S
MAXIMUM PLATE VOLTAGE	220 V
MAXIMUM SCREEN VOLTAGE	140 V
MAXIMUM PLATE DISSIPATION	12 W
MAXIMUM SCREEN DISSIPATION	1.4 W
MAXIMUM CATHODE CURRENT	55 mA
<i>Published section data extracted from approved source.</i>	

Beam-power tube used in television receiver applications and as an audio-frequency output tube.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1950 Sylvania

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

1950 SYLVANIA

Section 1 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
PlateVoltageTypical	200 V	Published operating/characteristic value
PlateCurrentTypical	47 mA	Published operating/characteristic value



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
Heater voltage	6.3 V	—
Heater current	1.2 A	—
Plate voltage	220 V	Typical operating conditions
Screen voltage	140 V	Typical 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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	13000 ohm	—
Transconductance	8000 uS	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	—
Heater current	1.2 A	—
Typical plate voltage	110 V	ClassA
Typical screen-grid voltage	110 V	ClassA
Zero-signal plate current	49 mA	ClassA
Maximum-signal plate current	50 mA	ClassA
Power output	2.1 W	ClassA
Load resistance	2000 ohm	ClassA



SOURCE DATA APPENDIX

1966 Tung Sol Electronic Tubes 2 of 4

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1966 TUNG SOL ELECTRONIC TUBES 2 OF 4

Section 1 · Beam Power

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid #1-to-plate capacitance	0.9 pF	—
Input capacitance	18 pF	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Output capacitance	7 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	110 V	ClassA;SingleTube
Screen voltage	110 V	ClassA;SingleTube
Grid #1 voltage	-4.5 V	ClassA;SingleTube
Zero-signal plate current	49 mA	ClassA;SingleTube
Maximum-signal plate current	50 mA	ClassA;SingleTube
Zero-signal screen current	4 mA	ClassA;SingleTube
Maximum-signal screen current	10 mA	ClassA;SingleTube
Load resistance	2000 ohm	ClassA;SingleTube
Power output	2.1 W	ClassA;SingleTube


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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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

Section 1 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	—
Heater current	1.2 A	—
Plate voltage	200 V	ClassA
Screen voltage	125 V	ClassA
Plate current	46 mA	ClassA
Screen current	2.2 mA	ClassA
Load resistance	4000 ohm	ClassA
Power output	3.8 W	ClassA

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	220 V	—
Maximum screen voltage	140 V	—
Plate dissipation	12 W	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	28000 ohm	ClassA
Transconductance	8000 uS	ClassA

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	0.9 pF	—
Input capacitance	18 pF	—
Output capacitance	7 pF	—



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 Voltage (ac/dc)	6.3 V	Published in approved 6GC5 target entry; Section1
Heater Current	1.2 A	Published in approved 6GC5 target entry; Section1
Plate Voltage	220 V	Published in approved 6GC5 target entry; Section1
Grid-No.2 (Screen-Grid) Voltage	140 V	Published in approved 6GC5 target entry; Section1
Plate Dissipation	12 W	Published in approved 6GC5 target entry; Section1

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-No.2 Input	1.4 W	Published in approved 6GC5 target entry; Section1
Plate Voltage 110	200 V	Published in approved 6GC5 target entry; Section1
Grid-No.2 Voltage 110	125 V	Published in approved 6GC5 target entry; Section1
7,5	8.6 V	Published in approved 6GC5 target entry; Section1
Zero-Signal Plate Current 49	46 mA	Published in approved 6GC5 target entry; Section1
Maximum-Signal Plate Current 50	47 mA	Published in approved 6GC5 target entry; Section1
Zero-Signal Grid-No.2 Current 4	2.2 mA	Published in approved 6GC5 target entry; Section1
Maximum-Signal Grid-No.2 Current 10	8.5 mA	Published in approved 6GC5 target entry; Section1
Plate Resistance (Approx.) 13000	28000 Ω	Published in approved 6GC5 target entry; Section1
Load Resistance 2000	4000 Ω	Published in approved 6GC5 target entry; Section1
Total Harmonic Distortion 10	10 %	Published in approved 6GC5 target entry; Section1
Maximum-Signal Power Output 2.1	3.8 W	Published in approved 6GC5 target entry; Section1
For fixed -bias operation	0.1 MΩ	Published in approved 6GC5 target entry; Section1
For cathode-bias operation	0.5 MΩ	Published in approved 6GC5 target entry; Section1

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid No.1 to Plate	0.9 pF	Published in approved 6GC5 target entry; Section1
Grid No.1 to Cathode, Heater, Grid No.2, and Grid No.3	18 pF	Published in approved 6GC5 target entry; Section1
Plate to Cathode. Heater, Grid No.2, and Grid No.3	7 pF	Published in approved 6GC5 target entry; Section1



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