

ELECTRONIC TUBE REFERENCE

25C6G

Power - Beam (NOT sweep) electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
BEAMPOWER

Beam-power amplifier designed for relatively low-voltage output service, with a 12.5-watt plate-dissipation rating and published Class-A operation.

GENERAL CHARACTERISTICS

BASE DESIGNATION	7AC	BASE PINS	7
NOMINAL HEATER	25 V / 300 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	18300 Ω
TRANSCONDUCTANCE	0.0071 S
MAXIMUM PLATE VOLTAGE	200 V
MAXIMUM SCREEN VOLTAGE	135 V
MAXIMUM PLATE DISSIPATION	12.5 W
MAXIMUM SCREEN DISSIPATION	1.75 W
Beam-power amplifier section.	

Beam power amplifier tube for low-voltage output service.



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

APPLICATION

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Service	Audio power output	—



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
Plate voltage	200 V	ClassA
Screen-grid voltage	135 V	ClassA
Grid voltage	-14 V	ClassA
Plate current	61 mA	ClassA
Screen-grid current	2.2 mA	ClassA
Load resistance	2600 ohm	ClassA
Power output	6 W	ClassA



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
Plate voltage	135 V	ClassA; OperatingPoint1
Plate voltage	200 V	ClassA; OperatingPoint2
Screen voltage	135 V	ClassA; OperatingPoint1
Screen voltage	135 V	ClassA; OperatingPoint2
Control-grid voltage	-13.5 V	ClassA; OperatingPoint1
Control-grid voltage	-14 V	ClassA; OperatingPoint2
Load resistance	2000 ohm	ClassA; OperatingPoint1
Load resistance	2600 ohm	ClassA; OperatingPoint2
Power output	3.6 W	ClassA; OperatingPoint1
Power output	6 W	ClassA; OperatingPoint2
Total harmonic distortion	10 %	ClassA; OperatingPoint1
Total harmonic distortion	10 %	ClassA; OperatingPoint2

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Zero-signal plate current	58 mA	ClassA; OperatingPoint1
Zero-signal plate current	61 mA	ClassA; OperatingPoint2
Zero-signal screen current	3.5 mA	ClassA; OperatingPoint1
Zero-signal screen current	2.2 mA	ClassA; OperatingPoint2
Plate resistance	9300 ohm	ClassA; OperatingPoint1
Plate resistance	18300 ohm	ClassA; OperatingPoint2
Transconductance	7000 uS	ClassA; OperatingPoint1
Transconductance	7100 uS	ClassA; OperatingPoint2

TUBE TINKER

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and their source documents.

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