

ELECTRONIC TUBE REFERENCE

50C6GA

Power - Beam (NOT sweep) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

BEAMPOWER

High-sensitivity beam-power amplifier for receiver audio-output service, providing useful Class-A output at comparatively low DC supply voltage.

GENERAL CHARACTERISTICS

BASE DESIGNATION	7AC	BASE PINS	7
NOMINAL HEATER	50 V / 150 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	200 V
MAXIMUM PLATE DISSIPATION	12.5 W
MAXIMUM SCREEN DISSIPATION	1.75 W
Grid-2 electrode maximum is charted; 200-V maximum grid-2 supply voltage is retained in parameters rather than forced into MaxScreenVoltage.	

High-sensitivity beam power amplifier. The supplied datasheet provides maximum ratings and representative Class A operating characteristics for receiver/audio output applications.

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
Maximum plate voltage	200 V	Published handbook rating
Maximum screen voltage	200 V	Published handbook rating
Plate voltage	200 V	ClassA
Screen voltage	135 V	ClassA
Control-grid bias	14 V	ClassA
Plate current	61 mA	ClassA
Screen current	2.2 mA	ClassA
Load resistance	2600 ohm	ClassA
Power output	6 W	ClassA

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	18300 ohm	Published handbook characteristic
Transconductance	7100 μ S	Published handbook characteristic
Heater/filament voltage	50 V	Published heater/filament rating
Heater/filament current	150 mA	Published heater/filament rating

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	50 V	—
Heater current	150 mA	—
Maximum grid #2 supply voltage	200 V	—
Plate voltage	135 V	ClassA1
Screen voltage	135 V	ClassA1
Power output	3.6 W	ClassA1;135VPlate
Power output	6 W	ClassA1;200VPlate

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	7000 μ S	135VPlate



SOURCE DATA APPENDIX

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
Typical plate voltage	200 V	ClassA
Typical screen voltage	135 V	ClassA
Zero-signal plate current	62 mA	ClassA
Load resistance	2600 ohm	ClassA

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum-signal power output	4 W	ClassA
Maximum plate voltage	200 V	PromotedValue
Maximum screen voltage	200 V	PromotedValue
Maximum plate dissipation	12.5 W	PromotedValue
Maximum screen dissipation	1.75 W	PromotedValue
Maximum Plate Diss-ipation	125 W	PublishedTable
Maximum Grid N2 Dissipation	1.75 W	PublishedTable
Heater Current	150 mA	PublishedTable
Peak Af Grid #1 Voltage Lj.Jr	14 V	PublishedTable
Zero Signal Grid #2 Current J,Jr	22 mA	PublishedTable
Maximum Signal Grid #2 Current 11.5	9 mA	PublishedTable
Plate Resistance (Appfox.) 9 300 18	300 ohm	PublishedTable
E~ Z =	135 V	PublishedTable
Et =	50 V	PublishedTable
Eb =	135 V	PublishedTable
Eo2 =	135 V	PublishedTable

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	18300 ohm	PromotedValue
Transconductance	0.0072 A/V	PromotedValue
50 Volts	150 mA	PublishedTable

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes,
and their source documents.

[Catalog](#) [Tube types](#) [Full books](#) [Blog](#) [Feedback & corrections](#)

© 2026 Tube Tinker