



ELECTRONIC TUBE REFERENCE

25B6G

Power - Pentode (NOT beam) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PENTODE

Power/output pentode designed for Class-A, single-ended, or push-pull audio-frequency output amplification.

GENERAL CHARACTERISTICS

BASE DESIGNATION	7S	BASE PINS	7
NOMINAL HEATER	25 V / 300 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

7S - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1 – IS	A	IS – Internal Screen	CONNECTED
PIN2 – H	–	H – Heater	CONNECTED
PIN3 – P	A	P – Plate (Anode)	CONNECTED
PIN4 – G2	A	G2 – Screen Grid	CONNECTED
PIN5 – G1	A	G1 – Control Grid	CONNECTED
PIN7 – H	–	H – Heater	CONNECTED
PIN8 – G3	A	G3 – Suppressor Grid	CONNECTED
PIN8 – K	A	K – Cathode	CONNECTED

SECTION RATINGS

SECTION1 Pentode	
PLATE RESISTANCE	18000 Ω
TRANSCONDUCTANCE	0.005 S
MAXIMUM PLATE VOLTAGE	200 V
MAXIMUM SCREEN VOLTAGE	135 V
MAXIMUM PLATE DISSIPATION	12.5 W
MAXIMUM SCREEN DISSIPATION	2 W
<i>Power-amplifier pentode section.</i>	

Power pentode for low-voltage audio output service.



SOURCE OPERATING CONDITIONS

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1937 Raytheon Radio Receiving Tubes

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

1937 RAYTHEON RADIO RECEIVING TUBES

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Voltage	96 V	Published ratings
Maximum Screen Voltage	95 V	Published ratings
Plate Voltage	95 V	ClassA
Screen Voltage	85 V	ClassA
Transconductance	4000	ClassA
Plate Current	45 mA	ClassA
Screen Current	4 mA	ClassA
Load Resistance	2000 ohm	ClassA
Total Harmonics	10 %	ClassA
Power Output	1.78 W	ClassA



SOURCE OPERATING CONDITIONS

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1950 Sylvania

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

1950 SYLVANIA

Section 1 · Pentode

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Service	Audio power output	—



SOURCE OPERATING CONDITIONS

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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 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	200 V	ClassA
Screen-grid voltage	135 V	ClassA
Grid voltage	-23 V	ClassA
Plate current	62 mA	ClassA
Screen-grid current	1.8 mA	ClassA
Load resistance	2500 ohm	ClassA
Power output	7.1 W	ClassA



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 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	25 V	Nominal
Heater current	300 mA	Nominal
Plate voltage	105 V	ClassA; OperatingPoint1
Plate voltage	135 V	ClassA; OperatingPoint2

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	200 V	ClassA; OperatingPoint3
Screen voltage	105 V	ClassA; OperatingPoint1
Screen voltage	135 V	ClassA; OperatingPoint2
Screen voltage	135 V	ClassA; OperatingPoint3
Control-grid voltage	-16 V	ClassA; OperatingPoint1
Control-grid voltage	-22 V	ClassA; OperatingPoint2
Control-grid voltage	-23 V	ClassA; OperatingPoint3
Load resistance	1700 ohm	ClassA; OperatingPoint1
Load resistance	1700 ohm	ClassA; OperatingPoint2
Load resistance	2500 ohm	ClassA; OperatingPoint3
Total harmonic distortion	12.5 %	ClassA; OperatingPoint1
Total harmonic distortion	14 %	ClassA; OperatingPoint2
Total harmonic distortion	15 %	ClassA; OperatingPoint3
Power output	2.4 W	ClassA; OperatingPoint1
Power output	4.3 W	ClassA; OperatingPoint2
Power output	7.1 W	ClassA; OperatingPoint3

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Zero-signal plate current	48 mA	ClassA; OperatingPoint1
Zero-signal plate current	61 mA	ClassA; OperatingPoint2
Zero-signal plate current	62 mA	ClassA; OperatingPoint3
Zero-signal screen current	2 mA	ClassA; OperatingPoint1
Zero-signal screen current	2.5 mA	ClassA; OperatingPoint2
Zero-signal screen current	1.8 mA	ClassA; OperatingPoint3
Plate resistance	15500 ohm	ClassA; OperatingPoint1
Plate resistance	15000 ohm	ClassA; OperatingPoint2
Plate resistance	18000 ohm	ClassA; OperatingPoint3
Transconductance	4800 uS	ClassA; OperatingPoint1
Transconductance	5000 uS	ClassA; OperatingPoint2
Transconductance	5000 uS	ClassA; OperatingPoint3



TUBE TINKER

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