



ELECTRONIC TUBE REFERENCE

25A6G

Power - Pentode Single (NOT beam) (under 10W) 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	—	BASE PINS	7
NOMINAL HEATER	25 V / 300 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Pentode	
PLATE RESISTANCE	42000 Ω
TRANSCONDUCTANCE	0.002375 S
AMPLIFICATION FACTOR	90
MAXIMUM PLATE VOLTAGE	180 V
MAXIMUM SCREEN VOLTAGE	135 V
MAXIMUM PLATE DISSIPATION	4.3 W
MAXIMUM SCREEN DISSIPATION	1.9 W
<i>Electrical section reconstructed from published ratings/characteristics; promoted transconductance normalized to A/V.</i>	

Power pentode for AC/DC receiver output service.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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
Max, Plate Voltage	180 V	Published ratings
Max, Screen Voltage	135 V	Published ratings
Plate Voltage	95 V	ClassA; Column1
Plate Voltage	135 V	ClassA; Column2
Plate Voltage	180 V	ClassA; Column3
Screen Voltage	95 V	ClassA; Column1
Screen Voltage	135 V	ClassA; Column2
Screen Voltage	135 V	ClassA; Column3
r'an §V Grid Bias	-15 V	ClassA; Column1
r'an §V Grid Bias	-20 V	ClassA; Column2
r'an §V Grid Bias	-20 V	ClassA; Column3
MAK *k Amplification Factor (approx)	90	ClassA; Column1
MAK *k Amplification Factor (approx)	85	ClassA; Column2
MAK *k Amplification Factor (approx)	100	ClassA; Column3
e Plate Resistance {approx	45000	ClassA; Column1
e Plate Resistance {approx	35000	ClassA; Column2
e Plate Resistance {approx	40000	ClassA; Column3
Plate Current	20 mA	ClassA; Column1
Plate Current	37 mA	ClassA; Column2
Plate Current	38 mA	ClassA; Column3
PR L Load Resistance	4500 ohm	ClassA; Column1

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
PR L Load Resistance	4000 ohm	ClassA; Column2
PR L Load Resistance	5000 ohm	ClassA; Column3
Total Harmonic Distortion	11 %	ClassA; Column1
Total Harmonic Distortion	9 %	ClassA; Column2
Total Harmonic Distortion	10 %	ClassA; Column3
Dw[] *l\N' Power Output	0.9 W	ClassA; Column1
Dw[] *l\N' Power Output	2 W	ClassA; Column2
Dw[] *l\N' Power Output	2.75 W	ClassA; Column3
Heater to cathode bias should not exceed	90	ClassA


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1948 Brimar Radio Valve Manual

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

1948 BRIMAR RADIO VALVE MANUAL

Section 1 · Pentode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterOrFilamentVoltage	25 V	—
HeaterOrFilamentCurrent	300 mA	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Power Output	2.2 W	ClassA;PlateVoltage=160V


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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 DATA APPENDIX

SOURCE OPERATING CONDITIONS

SOURCE PDF

1958 Brimar Radio Valve No 7

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

1958 BRIMAR RADIO VALVE NO 7
Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Power output maximum published	2.2 W	—



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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
Plate Voltage	160 V	ClassA

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Screen Voltage	120 V	ClassA
Power Output	2.2 W	ClassA
Load Resistance	5000 ohm	ClassA