



ELECTRONIC TUBE REFERENCE

3LE4

Power - Pentode (NOT beam) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PENTODE

Directly heated power pentode for Class-A audio output with series/parallel filaments. Its low-voltage filamentary construction is suited to portable battery-powered audio equipment.

GENERAL CHARACTERISTICS

BASE DESIGNATION	6BA	BASE PINS	6
NOMINAL HEATER	1.4 V / 100 mA	PARALLEL HEATER	1.4 V / 100 mA
HEATING	Direct	SERIES OPERATION	Capable
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Pentode	
TRANSCONDUCTANCE	0.00175 S
MAXIMUM PLATE VOLTAGE	110 V
MAXIMUM SCREEN VOLTAGE	110 V
MAXIMUM CATHODE CURRENT	13 mA
Directly heated power pentode for Class A audio output with series/parallel filaments.	

Directly heated power pentode for Class A audio output with series/parallel filaments.



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 · Pentode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	1750 μ S	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Voltage	110 V	—
Maximum Screen Voltage	110 V	—
Maximum Cathode Current	13 mA	—
Plate Voltage	90 V	ClassA
Screen Voltage	90 V	ClassA
Power Output	325 mW	ClassA; parallel filament



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 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	90 V	ClassA;ParallelFilaments

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Screen-grid voltage	90 V	ClassA;ParallelFilaments
Grid No.1 bias	9 V	ClassA;ParallelFilaments
Plate current	10 mA	ClassA;ParallelFilaments
Screen-grid current	2 mA	ClassA;ParallelFilaments
Plate resistance	100000 ohm	ClassA;ParallelFilaments
Transconductance	1700 uS	ClassA;ParallelFilaments
Load resistance	6000 ohm	ClassA;ParallelFilaments
Power output	0.325 W	ClassA;ParallelFilaments
Plate voltage	90 V	ClassA;SeriesFilaments
Screen-grid voltage	90 V	ClassA;SeriesFilaments
Grid No.1 bias	9 V	ClassA;SeriesFilaments
Plate current	8.8 mA	ClassA;SeriesFilaments
Screen-grid current	1.8 mA	ClassA;SeriesFilaments
Plate resistance	110000 ohm	ClassA;SeriesFilaments
Transconductance	1600 uS	ClassA;SeriesFilaments
Load resistance	6000 ohm	ClassA;SeriesFilaments
Power output	0.3 W	ClassA;SeriesFilaments