



ELECTRONIC TUBE REFERENCE

7AB7

Voltage - Pentode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PENTODE

Pentode documented with manufacturer and handbook Class A operating characteristics. The available source establishes conventional signal-amplifier operation but does not provide sufficiently explicit application or cutoff terminology for narrower classification.

GENERAL CHARACTERISTICS

BASE DESIGNATION	8B0	BASE PINS	8
NOMINAL HEATER	7 V / 160 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Pentode	
PLATE RESISTANCE	500000 Ω
TRANSCONDUCTANCE	0.0018 S
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM SCREEN VOLTAGE	100 V
MAXIMUM PLATE DISSIPATION	1.2 W
MAXIMUM SCREEN DISSIPATION	0.15 W
Published handbook ratings and representative operating characteristics reviewed.	

The 7AB7 is a Pentode vacuum tube as described by the source datasheet.

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
Maximum plate voltage	300 V	Published handbook rating
Maximum screen voltage	150 V	Published handbook rating
Plate voltage	250 V	ClassA
Screen voltage	100 V	ClassA
Control-grid bias	2 V	ClassA
Plate current	4 mA	ClassA
Screen current	1.3 mA	ClassA

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	500000 ohm	Published handbook characteristic
Transconductance	1800 μ S	Published handbook characteristic
Heater voltage	6.3 V	Published heater rating
Heater current	150 mA	Published heater rating

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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	7 V	Nominal
Heater current	160 mA	Nominal
Plate voltage	300 V	Typical operating conditions
Screen voltage	100 V	Typical operating conditions

TUBE TINKER

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