



ELECTRONIC TUBE REFERENCE

1LB6

Voltage - Pentode or Tetrode (under 100V) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

HEPTODE

Battery heptode converter with exceptionally high plate resistance for oscillator and mixer service in portable superheterodyne receivers. Very low filament consumption emphasizes battery economy over maximum conversion gain.

GENERAL CHARACTERISTICS

BASE DESIGNATION	8AX	BASE PINS	8
NOMINAL HEATER	1.4 V / 50 mA	PARALLEL HEATER	– / –
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Heptode	
PLATE RESISTANCE	2000000 Ω
TRANSCONDUCTANCE	0.0001 S
MAXIMUM PLATE VOLTAGE	90 V
MAXIMUM SCREEN VOLTAGE	67.5 V
<i>Published handbook maximum ratings and representative operating characteristics reviewed.</i>	

1LB6 is listed as a pentagrid mixer in the supplied receiving-tube handbook. It uses a 1.4 V, 0.05 A directly heated filament. The handbook publishes maximum ratings and representative operating characteristics for its intended service.



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 · Heptode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	90 V	Mixer Operation
Screen Voltage	67.5 V	Mixer Operation
Peak Oscillator Grid Voltage	10 V	Minimum
Plate Current	0.4 mA	—
Screen Grid Current	2.2 mA	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Conversion Conductance	100 μ S	$E_{c1}=0$ V
Conversion Conductance	5 μ S	$E_{c1}=-4.5$ V



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 · Heptode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	90 V	Published handbook rating

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum screen voltage	67.5 V	Published handbook rating
Plate voltage	90 V	ClassA
Screen voltage	67.5 V	ClassA
Control-grid voltage	0 V	ClassA
Plate current	0.4 mA	ClassA
Screen current	2.2 mA	ClassA

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	2000000 ohm	Published handbook characteristic
Transconductance	100 μ S	Published handbook characteristic
Filament voltage	1.4 V	DirectlyHeated DC filament
Filament current	50 mA	DirectlyHeated DC filament

TUBE TINKER

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and their source documents.

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