



ELECTRONIC TUBE REFERENCE

6008

Voltage Pentode or Tetrode (under 100V) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
PENTODE

Radiation-cooled directly heated miniature voltage-amplifier pentode, co-designated with 5911 in manufacturer literature. Its filamentary cathode and compact construction suit miniature signal-amplifier applications rather than power-output service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	512-AX	BASE PINS	9
NOMINAL HEATER	0.625 V / 13.3 mA	PARALLEL HEATER	– / –
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Pentode	
PLATE RESISTANCE	4000000 Ω
TRANSCONDUCTANCE	0.0001 S
MAXIMUM PLATE VOLTAGE	45 V
MAXIMUM SCREEN VOLTAGE	45 V
MAXIMUM PLATE DISSIPATION	0.0015 W
Directly heated sharp-cutoff pentode.	

6008 is a Pentode device. Radiation-cooled directly heated miniature voltage-amplifier pentode; source co-designates 6008/5911.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1953 Amperex

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

1953 AMPEREX

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Typical plate voltage	22.5 V	—
Typical screen-grid voltage	18 V	—
Typical plate current	50 μ A	—
Filament voltage minimum	0.45 V	—

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	100 μ S	—



SOURCE OPERATING CONDITIONS

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1958 Amperex Industrial

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

1958 AMPEREX INDUSTRIAL

Section 1 · Pentode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	0.2 pF	—
Output capacitance	1.5 pF	—
Plate resistance	0.4 M Ω m	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	45 V	—
Maximum plate dissipation	1.5 mW	—
Control-grid voltage	-0.2 V	—
Screen-grid voltage	45 V	—
Plate current	50 uA	—



SOURCE OPERATING CONDITIONS

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195X General Electric Essential Characteristics

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195X GENERAL ELECTRIC ESSENTIAL CHARACTERISTICS

Section 1 · Pentode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input capacitance	1.5 pF	—
Output capacitance	1.5 pF	—
Grid-to-plate capacitance	0.24 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	22.5 V	ClassA
Screen voltage	18 V	ClassA
Control-grid bias	-1.15 V	ClassA
Plate current	0.05 mA	ClassA
Screen current	0.01 mA	ClassA
Plate resistance	4000000 ohm	ClassA
Transconductance	100 uS	ClassA

SOURCE OPERATING CONDITIONS

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1963 Amperex Condensed

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

1963 AMPEREX CONDENSED

Section 1 · Pentode

CAPACITANCE

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	0.2 pF	—
Input capacitance	1.5 pF	—

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	45 V	—
Grid voltage	-0.2 V	—
Screen voltage	45 V	—
Output power	2.25 mW	—

CHARACTERISTIC

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	50 uS	—
Plate resistance	0.4 MOhm	—