



ELECTRONIC TUBE REFERENCE

6086

Voltage - Pentode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PENTODE

Pentode with an 18 V, 0.1 A heater and published Class A characteristics. The available manufacturer and handbook sources establish signal-amplifier operation but do not clearly support a narrower functional classification.

GENERAL CHARACTERISTICS

BASE DESIGNATION	9BK	BASE PINS	9
NOMINAL HEATER	18 V / 100 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	0.009 S
MAXIMUM PLATE VOLTAGE	210 V
MAXIMUM SCREEN VOLTAGE	210 V
MAXIMUM PLATE DISSIPATION	2.1 W
MAXIMUM SCREEN DISSIPATION	0.35 W
MAXIMUM CATHODE CURRENT	16 mA
<i>Published maximum ratings, representative operating conditions, and rectifier data reviewed.</i>	

6086 is listed in the supplied receiving-tube handbook as a pentode. The published heater/filament rating is 18.0 V at 0.1 A.



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	210 V	Published handbook rating
Maximum screen voltage	210 V	Published handbook rating
Plate voltage	210 V	ClassA
Screen voltage	120 V	ClassA
Plate current	10 mA	ClassA
Screen current	2.1 mA	ClassA

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	500000 ohm	Published handbook characteristic
Transconductance	9000 μ S	Published handbook characteristic
Heater/filament voltage	18 V	Published heater/filament rating
Heater/filament current	100 mA	Published heater/filament rating



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1999 Philips 0-D

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

1999 PHILIPS 0-D

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate current	10 mA	Typical
Screen current	2.1 mA	Typical
Class A output power	660 mW	At 210 V supply
Grid1-plate capacitance	0.015 pF	Maximum

TUBE TINKER

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