

ELECTRONIC TUBE REFERENCE

6DB6

Voltage - Radio Detector Converter electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
PENTODE

Dual-control sharp-cutoff pentode for color-television demodulation, gating, and controlled-amplifier circuits. Two effective control grids enable switching and signal processing beyond ordinary pentode amplification.

GENERAL CHARACTERISTICS

BASE DESIGNATION	7CM	BASE PINS	7
NOMINAL HEATER	6.3 V / 300 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

7CM - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1 – G1	A	G1 – Control Grid	CONNECTED
PIN2 – K	A	K – Cathode	CONNECTED
PIN3 – H	–	H – Heater	CONNECTED
PIN4 – H	–	H – Heater	CONNECTED
PIN5 – P	A	P – Plate (Anode)	CONNECTED
PIN6 – G2	A	G2 – Screen Grid	CONNECTED
PIN7 – G3	A	G3 – Suppressor Grid	CONNECTED
PIN7 – IS	A	IS – Internal Screen	CONNECTED

SECTION RATINGS

SECTION1 Pentode	
PLATE RESISTANCE	50000 Ω
TRANSCONDUCTANCE	0.00205 S
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM SCREEN VOLTAGE	150 V
MAXIMUM PLATE DISSIPATION	3 W
<i>Dual-control pentode for gated or controlled Class-A amplifier service.</i>	

The Westinghouse 6DB6 is a dual-control sharp-cutoff pentode for color demodulation and gating.

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	150 V	ClassA; Grid3Bias-3V
Screen voltage	150 V	ClassA; Grid3Bias-3V
Control-grid bias magnitude	1 V	ClassA; Grid3Bias-3V
Plate current	5.8 mA	ClassA; Grid3Bias-3V
Screen current	6.6 mA	ClassA; Grid3Bias-3V
Plate resistance	50000 ohm	ClassA; Grid3Bias-3V
Transconductance	2050 uS	ClassA; Grid3Bias-3V

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input capacitance	6 pF	—
Output capacitance	5 pF	—
Grid-to-plate capacitance	0.0035 pF	—

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1965 Westinghouse Data Book

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

1965 WESTINGHOUSE DATA BOOK

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	6.3 V	—
Heater Current	300 mA	—
Transconductance	2050 μ S	RepresentativePublishedPoint
Plate Resistance	50000 ohm	RepresentativePublishedPoint
Plate Voltage	150 V	—
Screen Voltage	150 V	—
Grid3 Voltage	-3 V	—
Grid1 Voltage	-1 V	—
Grid3-to-Plate Transconductance	1000 μ S	—
Plate Current	5.8 mA	—
Screen Current	6.6 mA	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Voltage	300 V	—
Maximum Plate Dissipation	3 W	—
Screen Supply Voltage	300 V	—
Screen Dissipation	1 W	—

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes, and their source documents.

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