



ELECTRONIC TUBE REFERENCE

7683

Voltage - Pentode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
PENTODE

High-voltage pentode designed for wide plate-voltage swing in shunt or series high-voltage regulator circuits. Its primary function is electronic high-voltage regulation and control rather than ordinary small-signal amplification.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	6.3 V / 150 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Pentode	
PLATE RESISTANCE	28000 Ω
TRANSCONDUCTANCE	0.0042 S
MAXIMUM PLATE VOLTAGE	1000 V
MAXIMUM SCREEN VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	15 W
MAXIMUM SCREEN DISSIPATION	0.7 W
MAXIMUM CATHODE CURRENT	20 mA

High-voltage pentode designed for wide plate-voltage swing in shunt or series high-voltage regulator circuits.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1950 Victoreen

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

1950 VICTOREEN

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Dissipation	15 W	—
Maximum Plate Current	20 mA	—
Maximum Plate Voltage	1000 V	—
Maximum Heater Cathode Voltage	300 V	—
Maximum Screen Voltage	250 V	—
Maximum Screen Dissipation	0.7 W	—
Typical Plate Voltage	300 V	Amplifier
TypicalControlGridVoltage	-10 V	Amplifier
Typical Screen Voltage	250 V	Amplifier
Typical Plate Current	12.6 mA	Amplifier
Typical Screen Current	2.2 mA	Amplifier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Resistance	28000 ohm	—
Transconductance	4200 umho	—

TUBE TINKER

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