



ELECTRONIC TUBE REFERENCE

246A

Voltage Tetrode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TETRODE

Screen-grid tetrode intended for receiver voltage amplification, detector, oscillator, or general Class-A service as documented by the manufacturer.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	4
NOMINAL HEATER	3.3 V / 100 mA	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Tetrode	
PLATE RESISTANCE	325000 Ω
TRANSCONDUCTANCE	0.00051 S
MAXIMUM PLATE VOLTAGE	180 V
MAXIMUM SCREEN VOLTAGE	67.5 V
<i>Promoted fields mapped from published ratings/characteristics; additional published values preserved in parameter table.</i>	

Western Electric general-purpose tetrode with a 3.3 V, 0.1 A oxide-coated filament and a published Class-A operating point.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1956 Western Electric Tubes

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

1956 WESTERN ELECTRIC TUBES

Section 1 · Tetrode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	3.3 V	—
Heater Current	100 mA	—
Maximum Plate Voltage	180 V	—
Maximum Screen Voltage	67.5 V	—
Plate Voltage	135 V	ClassA
Plate Current	1.5 mA	ClassA

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification Factor	285	ClassA
Transconductance	390 μ S	ClassA
Plate Resistance	725000 ohm	ClassA



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

2026 Western Electric 200s

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

2026 WESTERN ELECTRIC 200S

Section 1 · Tetrode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament Current	0.1 Amperes	Filament Current 0.10 Amperes

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament Voltage	3.3 Volt	Filament Voltage 3.3V olts
Screen-Grid Voltage	45 Volt	Screen-Grid Voltage 45 45 67.5
Control-Grid Voltage	-1.5 Volt	Control-Grid Voltage —1.5 —1.5 —3.0
Average Plate Current— Milliamperes	1 Milliamperes	Average Plate Current—Milliamperes 1. 50 1. 55 2. 85
Average Plate Resistance— Ohms	725000 Ohms	Average Plate Resistance—Ohms 725,000 830,000 325,000
Average Mutual Conductance— Micromhos	390 Micromhos	Average Mutual Conductance—Micromhos 390 400 510
Average A m p l i f i c a t i o n Factor	285	Average A m p l i f i c a t i o n Factor 285 335 165
Filament current	0.1 ampere	Filament current 0.100 ampere, d.c.
Nominal fi l a m e n t voltage	3.3 volt	Nominal fi l a m e n t voltage 3.3 volts
are shown as functions of plate voltage for several values of control-grid voltage in Figures	3 volt	are shown as functions of plate voltage for several values of control-grid voltage in Figures 3 and 4
for screen-grid voltages of	45 volt	for screen-grid voltages of 45 and 67.5 volts, respectively. The plate, screen-grid, and control- grid
Corresponding amplification factor and plate resistance characteristics are given in Figures	8	Corresponding amplification factor and plate resistance characteristics are given in Figures 8, 9,
FILAMENT CURRENT=	0.1 AMPERE	FILAMENT CURRENT=0.100AMPERE
aaaaaa aa laaa aaaaaaaaaaaaaaaa FILAMENT CURRENT =	0.1 AMPERE	aaaaaa aa laaa aaaaaaaaaaaaaaaaa FILAMENT CURRENT = 0.100 AMPERE aaaaaaaaaaa
FILAMENT CURRENT=	0.1 AMPERE	FILAMENT CURRENT=0.100AMPERE : sss::::: FILAMENT CURRENT=0.100 AMPERE
FILAMENT CURRENT=	0.1 AMPERE	FILAMENT CURRENT=0.100 AMPERE :a:E:::: ■ F I L A M E N T
CURRENT^	0.1 AMPERE	CURRENT^0.100AMPERE Isaaasaaaa:

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	135 Volt	Plate Voltage 135 180 135 Max.