



ELECTRONIC TUBE REFERENCE

259B

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	2 V / 1.6 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Tetrode	
PLATE RESISTANCE	400000 Ω
TRANSCONDUCTANCE	0.00138 S
AMPLIFICATION FACTOR	550
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM SCREEN VOLTAGE	90 V
Representative characteristics at plate 180 V, screen 75 V, grid -1.5 V. Maximum operating table includes 250 V plate and 90 V screen.	

Western Electric general-purpose tetrode with a 2.0 V, 1.6 A heater-type cathode 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	2 V	—
Heater Current	1.6 A	—
Maximum Plate Voltage	275 V	—
Maximum Screen Voltage	100 V	—
Maximum Heater-Cathode Voltage	100 V	—
Plate Voltage	180 V	ClassA
Plate Current	5.5 mA	ClassA

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification Factor	550	ClassA
Transconductance	1380 μ S	ClassA
Plate Resistance	400000 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

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
ControlGridToPlateCapacitance	0.004 pF	—
ControlGridToHeaterCathodeScreenCapacitance	5.8 pF	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
PlateToHeaterCathodeScreenCapacitance	14 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Heater Cathode Voltage	90 V	—
Screen Grid Current	1.2 mA	PlateVoltage=180V;ScreenVoltage=75V;GridBias=-1.5V
Plate Current	5.5 mA	PlateVoltage=180V;ScreenVoltage=75V;GridBias=-1.5V
MicrophonicNoiseOutput	-20 dB re 1V	PlateVoltage=180V;ScreenVoltage=75V;GridBias=-1.5V;Load=100kohm

TUBE TINKER

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