



ELECTRONIC TUBE REFERENCE

252A

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

General-purpose Western Electric power triode with an oxide-coated filament and published Class-A operation. Its documented operating point provides roughly 7-8 W output, making audio-frequency power amplification a principal practical role.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	4
NOMINAL HEATER	5 V / 2 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
PLATE RESISTANCE	1700 Ω
TRANSCONDUCTANCE	0.00305 S
AMPLIFICATION FACTOR	5.08
MAXIMUM PLATE VOLTAGE	550 V
MAXIMUM PLATE DISSIPATION	38 W
MAXIMUM CATHODE CURRENT	90 mA
<i>Maximum safe plate voltage 500 V. Representative published characteristics use the 500 V, -75 V maximum-operating table point for gm and mu; 1700 ohm plate resistance also published.</i>	

Western Electric general-purpose triode with a 5.0 V, 2.0 A oxide-coated filament and a published Class-A operating point.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1933 Western Electric Tubes

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

1933 WESTERN ELECTRIC TUBES

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate-grid capacitance	12 pF	Published direct interelectrode capacitance
Plate-filament capacitance	4 pF	Published direct interelectrode capacitance
Grid-filament capacitance	6.5 pF	Published direct interelectrode capacitance



SOURCE OPERATING CONDITIONS

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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 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	5 V	—
Heater Current	2 A	—
Maximum Plate Voltage	550 V	—
Maximum Plate Dissipation	38 W	—
Plate Voltage	450 V	ClassA
Plate Current	60 mA	ClassA
Power Output	7 W	ClassA

Characteristic		
Parameter	Published Value	Condition / Note
Amplification Factor	5.1	ClassA
Transconductance	3450 μ S	ClassA
Plate Resistance	1500 ohm	ClassA



SOURCE DATA APPENDIX

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 · Triode

Capacitance		
Parameter	Published Value	Condition / Note
Grid To Plate Capacitance	12 pF	—
Grid To Filament Capacitance	6.5 pF	—
Plate To Filament Capacitance	4 pF	—

Other		
Parameter	Published Value	Condition / Note
Maximum Plate Current	90 mA	ManuallyAdjustedGridBiasOrSelfBias
Power Output	8.3 W	PlateVoltage=500V;GridBias=-70V;LoadResistance=4000ohm

Characteristic		
Parameter	Published Value	Condition / Note
Plate Resistance	1500 ohm	PlateVoltage=500V;GridBias=-70V
Transconductance	3450 μ S	PlateVoltage=500V;GridBias=-70V