ELECTRONIC TUBE REFERENCE

# 257A

Voltage - Triode (single) electronic tube

CONSOLIDATED TECHNICAL DATA
**1 SECTION**
CONSTRUCTION
**TRIODE**

Western Electric general-purpose directly heated triode with oxide-coated filament and published Class A operating data.

## General characteristics

| | | | |
|---|---|---|---|
| **BASE DESIGNATION** | – | **BASE PINS** | 4 |
| **NOMINAL HEATER** | 3.1 V / 60 mA | **PARALLEL HEATER** | – / – |
| **HEATING** | Direct | **SERIES OPERATION** | Not specified |
| **CATHODE ARRANGEMENT** | Separate cathodes | **SECTION CONSTRUCTION** | Similar |

## Section ratings

**SECTION1** Triode

| | |
|---|---|
| **PLATE RESISTANCE** | 15600 Ω |
| **TRANSCONDUCTANCE** | 0.00054 S |
| **AMPLIFICATION FACTOR** | 8.4 |
| **MAXIMUM PLATE VOLTAGE** | 150 V |

*Representative maximum-operating table point: 135 V plate, -7.5 V grid, 2.50 mA plate current.*

Western Electric general-purpose triode with a 3.1 V, 0.06 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 · Triode

| OTHER | | |
|---|---|---|
| **PARAMETER** | **PUBLISHED VALUE** | **CONDITION / NOTE** |
| Heater Voltage | **3.1 V** | — |
| Heater Current | **60 mA** | — |
| Maximum Plate Voltage | **150 V** | — |
| Plate Voltage | **90 V** | ClassA |
| Plate Current | **2.1 mA** | ClassA |
| Power Output | **0.0045 W** | ClassA |

| CHARACTERISTIC | | |
|---|---|---|
| **PARAMETER** | **PUBLISHED VALUE** | **CONDITION / NOTE** |
| Amplification Factor | **8.4** | ClassA |
| Transconductance | **510 µS** | ClassA |
| Plate Resistance | **16300 ohm** | ClassA |

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ELECTRON TUBE DATABASE
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 | **3 pF** | — |

| PARAMETER | PUBLISHED VALUE | CONDITION / NOTE |
|---|---|---|
| Grid To Filament Capacitance | **1.8 pF** | — |
| Plate To Filament Capacitance | **2.3 pF** | — |

**OTHER**

| PARAMETER | PUBLISHED VALUE | CONDITION / NOTE |
|---|---|---|
| Plate Current | **2.5 mA** | MaximumOperatingCondition;PlateVoltage=135V;GridBias=-7.5V |
| MicrophonicNoiseOutput | **-22 dB re 1V** | PlateVoltage=90V;GridBias=-3V;Load=100kohm |


## Tube Tinker

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

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