



## ELECTRONIC TUBE REFERENCE

## 271A

Voltage - Triode (single) electronic tube

CONSOLIDATED TECHNICAL DATA

## 1 SECTION

CONSTRUCTION

## TRIODE

General-purpose receiving triode for voltage amplification, detection, oscillator, or Class-A service as documented by the manufacturer.

## GENERAL CHARACTERISTICS

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

## SECTION RATINGS

|                                                                             |               |
|-----------------------------------------------------------------------------|---------------|
| SECTION 1 Triode                                                            |               |
| PLATE RESISTANCE                                                            | 2830 $\Omega$ |
| TRANSCONDUCTANCE                                                            | 0.00292 S     |
| AMPLIFICATION FACTOR                                                        | 8.3           |
| MAXIMUM PLATE VOLTAGE                                                       | 500 V         |
| MAXIMUM CATHODE CURRENT                                                     | 60 mA         |
| Published ratings and characteristics promoted from the approved datasheet. |               |

Western Electric general-purpose triode with a 5.0 V, 2.0 A heater-type cathode 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    | 53 pF           | Published direct interelectrode capacitance |
| Plate-cathode capacitance | 3.8 pF          | Published direct interelectrode capacitance |
| Grid-cathode capacitance  | 5 pF            | Published direct interelectrode capacitance |



## 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                 | 5 V             | —                |
| Heater Current                 | 2 A             | —                |
| Maximum Plate Voltage          | 500 V           | —                |
| Maximum Heater-Cathode Voltage | 100 V           | —                |
| Plate Voltage                  | 400 V           | ClassA           |
| Plate Current                  | 37.5 mA         | ClassA           |
| Power Output                   | 2.8 W           | ClassA           |

| Characteristic       |                 |                  |
|----------------------|-----------------|------------------|
| Parameter            | Published Value | Condition / Note |
| Amplification Factor | 8.3             | ClassA           |
| Transconductance     | 2920 $\mu$ S    | ClassA           |
| Plate Resistance     | 2830 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       | 5.3 pF          | —                |
| GridToHeaterCathodeCapacitance  | 6.5 pF          | —                |
| PlateToHeaterCathodeCapacitance | 3.8 pF          | —                |

## TUBE TINKER

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

[Catalog](#) [Tube types](#) [Full books](#) [Blog](#) [Feedback & corrections](#)

© 2026 Tube Tinker