



## ELECTRONIC TUBE REFERENCE

# 7889

Voltage - Dual Triode (similar) electronic tube

CONSOLIDATED TECHNICAL DATA

**2 SECTIONS**

CONSTRUCTION

**TRIODE-TRIODE**

Reliable rugged subminiature twin triode intended for amplifier and control applications in severe environments, combining compact construction with dependable electrical performance.

## GENERAL CHARACTERISTICS

|                     |                   |                      |               |
|---------------------|-------------------|----------------------|---------------|
| BASE DESIGNATION    | 80G               | BASE PINS            | 8             |
| NOMINAL HEATER      | 26.5 V / 90 mA    | PARALLEL HEATER      | – / –         |
| HEATING             | Indirect          | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Separate cathodes | SECTION CONSTRUCTION | Similar       |

## SECTION RATINGS

|                                                                                                                                                                                                                                                                   |          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>SECTION1</b> Triode                                                                                                                                                                                                                                            |          |
| TRANSCONDUCTANCE                                                                                                                                                                                                                                                  | 0.0025 S |
| AMPLIFICATION FACTOR                                                                                                                                                                                                                                              | 70       |
| MAXIMUM PLATE VOLTAGE                                                                                                                                                                                                                                             | 165 V    |
| MAXIMUM PLATE DISSIPATION                                                                                                                                                                                                                                         | 0.55 W   |
| <i>Primary physical section. Sylvania 7889: maximum DC plate voltage 165 V; peak forward plate voltage 330 V. Typical transconductance 2500 <math>\mu</math>mos and amplification factor 70 at 150 V plate voltage, 820 <math>\Omega</math> cathode resistor.</i> |          |

|                                                                                                                                                                                                                                                                   |          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>SECTION2</b> Triode                                                                                                                                                                                                                                            |          |
| <b>TRANSCONDUCTANCE</b>                                                                                                                                                                                                                                           | 0.0025 S |
| <b>AMPLIFICATION FACTOR</b>                                                                                                                                                                                                                                       | 70       |
| <b>MAXIMUM PLATE VOLTAGE</b>                                                                                                                                                                                                                                      | 165 V    |
| <b>MAXIMUM PLATE DISSIPATION</b>                                                                                                                                                                                                                                  | 0.55 W   |
| <i>Second physical section. Sylvania 7889: maximum DC plate voltage 165 V; peak forward plate voltage 330 V. Typical transconductance 2500 <math>\mu</math>mhos and amplification factor 70 at 150 V plate voltage, 820 <math>\Omega</math> cathode resistor.</i> |          |

A premium subminiature general-purpose medium-mu dual triode with separate cathodes, particularly useful in low-level audio applications and designed for dependable operation.

## SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

# 1950 Sylvania

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

## 1950 SYLVANIA

## Section 1 · Triode

| OTHER          |                 |                         |
|----------------|-----------------|-------------------------|
| PARAMETER      | PUBLISHED VALUE | CONDITION / NOTE        |
| Heater Current | 90 mA           | Nominal published value |