



## ELECTRONIC TUBE REFERENCE

**6186**

Voltage - Pentode Sharp Cutoff (single) electronic tube

CONSOLIDATED TECHNICAL DATA

**1 SECTION**

CONSTRUCTION

**PENTODE**

Seven-pin miniature sharp-cutoff pentode, co-designated with 6AG5WA. Designed for dependable high-frequency amplification, it combines compact construction with special-service characteristics for professional electronic equipment.

## GENERAL CHARACTERISTICS

|                     |                   |                      |               |
|---------------------|-------------------|----------------------|---------------|
| BASE DESIGNATION    | —                 | BASE PINS            | 7             |
| NOMINAL HEATER      | 6.3 V / 300 mA    | PARALLEL HEATER      | — / —         |
| HEATING             | Indirect          | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Separate cathodes | SECTION CONSTRUCTION | Similar       |

## SECTION RATINGS

|                                                                                                                                      |                 |
|--------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| <b>SECTION 1</b> Pentode                                                                                                             |                 |
| PLATE RESISTANCE                                                                                                                     | 500000 $\Omega$ |
| TRANSCONDUCTANCE                                                                                                                     | 0.004 S         |
| MAXIMUM PLATE VOLTAGE                                                                                                                | 330 V           |
| MAXIMUM SCREEN VOLTAGE                                                                                                               | 250 V           |
| MAXIMUM PLATE DISSIPATION                                                                                                            | 2.5 W           |
| MAXIMUM SCREEN DISSIPATION                                                                                                           | 0.55 W          |
| MAXIMUM CATHODE CURRENT                                                                                                              | 9 mA            |
| <i>Published ratings and characteristics promoted where clearly stated; identical repeated sections compressed where applicable.</i> |                 |

THE 6186/6AG5WA IS A SHARP CUTOFF PENTODE IN THE 7 PIN MINIATURE CON-



## SOURCE OPERATING CONDITIONS

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# 1938 Raytheon

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

1938 RAYTHEON

## Section 1 · Pentode

**CHARACTERISTICS**

| PARAMETER                  | PUBLISHED VALUE | CONDITION / NOTE                          |
|----------------------------|-----------------|-------------------------------------------|
| Heater or filament voltage | 6.3 V           | Published nominal value                   |
| Heater or filament current | 300 mA          | Published nominal or representative value |
| Transconductance           | 5000 $\mu$ S    | Published characteristic                  |

**OTHER**

| PARAMETER                 | PUBLISHED VALUE | CONDITION / NOTE         |
|---------------------------|-----------------|--------------------------|
| Maximum plate dissipation | 2.5 W           | Published maximum rating |



## SOURCE OPERATING CONDITIONS

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# 1960 RCA Industrial and Communications Types

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

1960 RCA INDUSTRIAL AND COMMUNICATIONS TYPES

## Section 1 · Pentode

**CHARACTERISTICS**

| PARAMETER      | PUBLISHED VALUE | CONDITION / NOTE |
|----------------|-----------------|------------------|
| Heater Voltage | 6.3 V           | —                |
| Heater Current | 300 mA          | —                |



## SOURCE OPERATING CONDITIONS

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# 1961 Tung Sol

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

1961 TUNG SOL

## Section 1 · Pentode

| OTHER          |                    |                  |
|----------------|--------------------|------------------|
| PARAMETER      | PUBLISHED VALUE    | CONDITION / NOTE |
| Plate Voltage  | 250 V              | —                |
| Screen Voltage | 150 V              | —                |
| Service        | RF or IF amplifier | —                |



## SOURCE OPERATING CONDITIONS

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# 1966 Tung Sol Electronic Tubes 4 of 4

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

1966 TUNG SOL ELECTRONIC TUBES 4 OF 4

## Section 1 · Pentode

| OTHER                      |                 |                          |
|----------------------------|-----------------|--------------------------|
| PARAMETER                  | PUBLISHED VALUE | CONDITION / NOTE         |
| Heater voltage             | 6.3 V           | Nominal                  |
| Heater current             | 300 mA          | Nominal                  |
| Maximum plate voltage      | 330 V           | Promoted published value |
| Maximum screen voltage     | 250 V           | Promoted published value |
| Maximum plate dissipation  | 2.5 W           | Promoted published value |
| Maximum screen dissipation | 0.55 W          | Promoted published value |
| PLATE VOLTAGE Eb           | 330 V           | RATINGS                  |
| GRID #1 VOLTAGE Ec         | 0 V             | RATINGS                  |
| GRID #2 VOLTAGE Ec         | 250 V           | RATINGS                  |

| PARAMETER                   | PUBLISHED VALUE | CONDITION / NOTE                                    |
|-----------------------------|-----------------|-----------------------------------------------------|
| B U86 TEMPERATURE           | 165 C           | RATINGS                                             |
| HEATER CURRENT 0.65 If: 2'  | 375 mA          | CHARACTERISTICS AND QUALITY CONTROL TESTS - contld. |
| HEATER CURRENT --- ]. 3 If; | 325 mA          | CHARACTERISTICS AND QUALITY CONTROL TESTS - cont'd. |
| HEATER CURRENT: --- 2 5 If  | 325 mA          | CHARACTERISTICS AND QUALITY CONTROL TESTS - cont'd. |

| CHARACTERISTIC                                                    |                 |                                                     |
|-------------------------------------------------------------------|-----------------|-----------------------------------------------------|
| PARAMETER                                                         | PUBLISHED VALUE | CONDITION / NOTE                                    |
| Transconductance                                                  | 5000 uS         | Promoted published value                            |
| PLATE CURRENT (i): 0.65 Ib:<br>5.2 \$. \$ mAdc                    | 5.2 mA          | CHARACTERISTICS AND QUALITY CONTROL TESTS - contld. |
| TRANSCONDUCTANCE (1): 1.0 --<br>- --- 'Sm                         | 10 percent      | CHARACTERISTICS AND QUALITY CONTROL TESTS - cont'd. |
| ADJACENT PINS. PRESSURE =<br>55i 5M/M MERCU RTI TENPERATU<br>RE = | 500 C           | CHARACTERISTICS AND QUALITY CONTROL TESTS - cont'd. |

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