



## ELECTRONIC TUBE REFERENCE

6676

Voltage - Pentode Sharp Cutoff (single) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PENTODE

Sharp-cutoff pentode designed for mobile-communications RF and IF amplifier service. Its fixed-gain high-frequency characteristics suit professional communications equipment rather than automatic-gain-controlled remote-cutoff stages.

## 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

| SECTION 1 Pentode                     |                 |
|---------------------------------------|-----------------|
| PLATE RESISTANCE                      | 280000 $\Omega$ |
| TRANSCONDUCTANCE                      | 0.008 S         |
| MAXIMUM PLATE VOLTAGE                 | 300 V           |
| MAXIMUM SCREEN VOLTAGE                | 150 V           |
| MAXIMUM PLATE DISSIPATION             | 2.3 W           |
| MAXIMUM SCREEN DISSIPATION            | 0.75 W          |
| MAXIMUM CATHODE CURRENT               | 30 mA           |
| <i>Alias/co-designation of 6CB6A;</i> |                 |

Sharp-cutoff pentode for mobile-communications RF and IF amplifier service.

## SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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

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## 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                  | 330 V           | Promoted published value                                      |
| Maximum plate dissipation               | 2.3 W           | Promoted published value                                      |
| Voltage (AC or DC)                      | 6.3 V           | Heater Characteristics and Ratings fAbsolute-Maximum Valuesl: |
| Current at heater volts =               | 300 V           | Heater Characteristics and Ratings fAbsolute-Maximum Valuesl: |
| respect to cathode                      | 200 V           | Heater Characteristics and Ratings fAbsolute-Maximum Valuesl: |
| Grid No.1 to plate                      | 0.015 mA        | Direct Interelectrode Capacitances:                           |
| Plate Supply Voltage                    | 125 V           | Characteristics, Class AI pmol if ier:                        |
| Grid-No.2 Supply Voltage                | 125 V           | Characteristics, Class AI pmol if ier:                        |
| Grid-No.1 Voltage                       | -3 V            | Characteristics, Class AI pmol if ier:                        |
| Cathode Resistor                        | 56 ohm          | Characteristics, Class AI pmol if ier:                        |
| Plate Resistance (Approx )              | 0.28 megohm     | Characteristics, Class AI pmol if ier:                        |
| Transconductance                        | 8000 uS         | Characteristics, Class AI pmol if ier:                        |
| Plate Current                           | 13 mA           | Characteristics, Class AI pmol if ier:                        |
| Grid-No.2 Current - •3.7 ma             | 3.7 mA          | Characteristics, Class AI pmol if ier:                        |
| plate $\mu$ a =                         | -6.5 V          | Characteristics, Class AI pmol if ier:                        |
| PLATE VOLTAGE                           | 330 V           | Maximum Ratings, Absolute-Maximum Values:                     |
| GRID-No.2 (SCREEN-GRID) SUPPLY VOLTAGE. | 330 V           | Maximum Ratings, Absolute-Maximum Values:                     |

| PARAMETER                                                     | PUBLISHED VALUE | CONDITION / NOTE                          |
|---------------------------------------------------------------|-----------------|-------------------------------------------|
| GRIC-No.2 VOLTAGE See Grid-No.a Input Rating Chart            | 2 V             | Maximum Ratings, Absolute-Maximum Values: |
| GRID-No.1 (CONTROL-RID) VOLTAGE                               | 1 V             | Maximum Ratings, Absolute-Maximum Values: |
| For grid-No.2 voltages                                        | 2 V             | Maximum Ratings, Absolute-Maximum Values: |
| For grid-No.2 voltages between                                | 2 V             | Maximum Ratings, Absolute-Maximum Values: |
| PLATE DISSIPATION                                             | 2.3 W           | Maximum Ratings, Absolute-Maximum Values: |
| to voltage variations as great as                             | 20 V            | Maximum Ratings, Absolute-Maximum Values: |
| With heater volts =                                           | 125 V           | Maximum Ratings, Absolute-Maximum Values: |
| No.3 connected to cathode at socket, grid-No.2 supply volts = | 2 V             | Maximum Ratings, Absolute-Maximum Values: |
| 125, and cathode resistor (ohms) bypassed =                   | 56 ohm          | Maximum Ratings, Absolute-Maximum Values: |

| CHARACTERISTIC   |                 |                          |
|------------------|-----------------|--------------------------|
| PARAMETER        | PUBLISHED VALUE | CONDITION / NOTE         |
| Plate resistance | 280000 ohm      | Promoted published value |
| Transconductance | 8000 uS         | Promoted published value |

## TUBE TINKER

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