

ELECTRONIC TUBE REFERENCE

7F8

Voltage - Dual Triode (similar high frequency) electronic tube

CONSOLIDATED TECHNICAL DATA  
2 SECTIONS  
CONSTRUCTION  
TRIODE-TRIODE

High-transconductance double triode designed for operation into the hundreds of megahertz, including push-pull UHF amplification and FM or television frequency-converter service.

GENERAL CHARACTERISTICS

|                     |                   |                      |               |
|---------------------|-------------------|----------------------|---------------|
| BASE DESIGNATION    | 8BW               | BASE PINS            | 8             |
| NOMINAL HEATER      | 8.3 V / 300 mA    | PARALLEL HEATER      | – / –         |
| HEATING             | Indirect          | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Separate cathodes | SECTION CONSTRUCTION | Similar       |

SECTION RATINGS

|                                                                                     |          |
|-------------------------------------------------------------------------------------|----------|
| SECTION1 Triode                                                                     |          |
| PLATE RESISTANCE                                                                    | 14500 Ω  |
| TRANSCONDUCTANCE                                                                    | 0.0033 S |
| AMPLIFICATION FACTOR                                                                | 48       |
| MAXIMUM PLATE VOLTAGE                                                               | 300 V    |
| MAXIMUM PLATE DISSIPATION                                                           | 3.5 W    |
| Promoted fields mapped by printed headings; additional data retained in parameters. |          |

|                                                                        |                |
|------------------------------------------------------------------------|----------------|
| SECTION2 Triode                                                        |                |
| PLATE RESISTANCE                                                       | 14500 $\Omega$ |
| TRANSCONDUCTANCE                                                       | 0.0033 S       |
| AMPLIFICATION FACTOR                                                   | 48             |
| MAXIMUM PLATE VOLTAGE                                                  | 300 V          |
| MAXIMUM PLATE DISSIPATION                                              | 3.5 W          |
| Second physical triode section; added to align rows with SectionCount. |                |

The 7F8 combines two high-transconductance triodes for operation into the hundreds of megacycles, including push-pull UHF amplification and FM/television converter service.

## SOURCE OPERATING CONDITIONS

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# 195X General Electric Essential Characteristics

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

## 195X GENERAL ELECTRIC ESSENTIAL CHARACTERISTICS

## Section 1 · Triode

| CAPACITANCE               |                 |                  |
|---------------------------|-----------------|------------------|
| PARAMETER                 | PUBLISHED VALUE | CONDITION / NOTE |
| Input capacitance         | 2.8 pF          | EachSection      |
| Output capacitance        | 1.4 pF          | EachSection      |
| Grid-to-plate capacitance | 1.6 pF          | EachSection      |

| OTHER                 |                 |                    |
|-----------------------|-----------------|--------------------|
| PARAMETER             | PUBLISHED VALUE | CONDITION / NOTE   |
| Typical plate voltage | 250 V           | ClassA;EachSection |
| Cathode resistor      | 500 0hm         | ClassA;EachSection |
| Typical plate current | 6 mA            | ClassA;EachSection |

| CHARACTERISTIC       |                 |                  |
|----------------------|-----------------|------------------|
| PARAMETER            | PUBLISHED VALUE | CONDITION / NOTE |
| Transconductance     | 3300 uS         | EachSection      |
| Amplification factor | 48              | EachSection      |

## 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 · Triode

| OTHER         |                 |                  |
|---------------|-----------------|------------------|
| PARAMETER     | PUBLISHED VALUE | CONDITION / NOTE |
| Plate Voltage | 250 V           | EachUnit         |

| CHARACTERISTIC |                 |                  |
|----------------|-----------------|------------------|
| PARAMETER      | PUBLISHED VALUE | CONDITION / NOTE |
| Plate Current  | 9 mA            | EachUnit         |



### SOURCE OPERATING CONDITIONS

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# 1966 Tung Sol Electronic Tubes 2 of 4

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

1966 TUNG SOL ELECTRONIC TUBES 2 OF 4

## Section 1 · Triode

| OTHER         |                 |                          |
|---------------|-----------------|--------------------------|
| PARAMETER     | PUBLISHED VALUE | CONDITION / NOTE         |
| Plate_voltage | 150 V           | Section1,Section2,ClassA |
| Grid_voltage  | -2 V            | Section1,Section2,ClassA |

| CHARACTERISTIC       |                 |                          |
|----------------------|-----------------|--------------------------|
| PARAMETER            | PUBLISHED VALUE | CONDITION / NOTE         |
| Plate_current        | 6 mA            | Section1,Section2,ClassA |
| Amplification_factor | 48              | Section1,Section2,ClassA |
| Transconductance     | 6000 uS         | Section1,Section2,ClassA |

| CAPACITANCE               |                 |                   |
|---------------------------|-----------------|-------------------|
| PARAMETER                 | PUBLISHED VALUE | CONDITION / NOTE  |
| Grid-to-plate capacitance | 2.1 pF          | Section1,Section2 |
| Input capacitance         | 4 pF            | Section1,Section2 |
| Output capacitance        | 1.3 pF          | Section1,Section2 |

## SOURCE OPERATING CONDITIONS

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# 1968 General Electric Co

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

1968 GENERAL ELECTRIC CO

## Section 1 · Triode

| OTHER                                                     |                 |                                                        |
|-----------------------------------------------------------|-----------------|--------------------------------------------------------|
| PARAMETER                                                 | PUBLISHED VALUE | CONDITION / NOTE                                       |
| designed for use as a grounded-grid radio-frequency up to | 300 MHz         | Published datasheet line; semantic text-layer recovery |
| Heater Voltage (A-C or D-C)                               | 8.3 V           | Published datasheet line; semantic text-layer recovery |
| Heater Current                                            | 300 mA          | Published datasheet line; semantic text-layer recovery |
| Plate Voltage e e e e e e e e e                           | 300 V           | Published datasheet line; semantic text-layer recovery |
| Plate Dissipation (Total for Both Sections)               | 3.5 W           | Published datasheet line; semantic text-layer recovery |
| Grid Voltage (Positive Bias Value)                        | 0 V             | Published datasheet line; semantic text-layer recovery |
| Peak Heater-Cathode Voltage                               | 90 V            | Published datasheet line; semantic text-layer recovery |
| pPlate Voltage                                            | 250 V           | Published datasheet line; semantic text-layer recovery |
| Cathode-Bias Resistor#                                    | 500 0hm         | Published datasheet line; semantic text-layer recovery |

| CHARACTERISTIC                 |                 |                                                        |
|--------------------------------|-----------------|--------------------------------------------------------|
| PARAMETER                      | PUBLISHED VALUE | CONDITION / NOTE                                       |
| Plate Resistance (Approximate) | 14500 0hm       | Published datasheet line; semantic text-layer recovery |
| Transconductance C             | 3300 uS         | Published datasheet line; semantic text-layer recovery |