



## ELECTRONIC TUBE REFERENCE

## F6926

Power - Triode (over 1000V 100W) electronic tube

CONSOLIDATED TECHNICAL DATA

## 1 SECTION

CONSTRUCTION

## TRIODE

Water-cooled ITT power triode for substantial RF amplifier service. Approximately 6 kW plate dissipation and multi-kilovolt operation provide high continuous Class C transmitter power with direct liquid cooling.

## GENERAL CHARACTERISTICS

|                     |                   |                      |               |
|---------------------|-------------------|----------------------|---------------|
| BASE DESIGNATION    | —                 | BASE PINS            | —             |
| NOMINAL HEATER      | 13 V / 36 A       | PARALLEL HEATER      | — / —         |
| HEATING             | Direct            | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Separate cathodes | SECTION CONSTRUCTION | Similar       |

## SECTION RATINGS

|                                                                                                                           |        |
|---------------------------------------------------------------------------------------------------------------------------|--------|
| SECTION 1 Triode                                                                                                          |        |
| AMPLIFICATION FACTOR                                                                                                      | 17     |
| MAXIMUM PLATE VOLTAGE                                                                                                     | 6500 V |
| MAXIMUM PLATE DISSIPATION                                                                                                 | 6000 W |
| <i>Published maximum ratings and characteristics audited; remaining numeric data retained densely in parameter table.</i> |        |

Water-cooled power triode for modulator, radio-frequency amplifier, and oscillator service. The heavy-wall anode is rated for 6 kW continuous-commercial-service dissipation.

## SOURCE OPERATING CONDITIONS

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# 1962 ITT

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

1962 ITT

## Section 1 · Triode

| OTHER                     |                 |                                                                     |
|---------------------------|-----------------|---------------------------------------------------------------------|
| PARAMETER                 | PUBLISHED VALUE | CONDITION / NOTE                                                    |
| and are water cooled      | 6 W             | and are water cooled. 6 kilowatts of power may be dissipated during |
| Filament Voltage          | 13 V            | Filament Voltage 13 volts                                           |
| Filament Current          | 36 A            | Filament Current 36 amperes                                         |
| Grid-Plate                | 20.5            | Grid-Plate 20.5 ppuf                                                |
| Grid-Filament             | 18              | Grid-Filament 18 uuf                                                |
| Plate~-Filament           | 1.9             | Plate~-Filament 1.9 puf                                             |
| Anode Water Flow required | 3.5             | Anode Water Flow required 3.5 gpau                                  |
| Maximum Glags Temperature | 180             | Maximum Glags Temperature 180° ¢                                    |
| D-C Plate Voltage         | 6.5 kV          | D-C Plate Voltage 6.5 max. kv                                       |
| D-C Grid Voltage          | -1.2 kV         | D-C Grid Voltage -1.2 max. kv                                       |
| D~C Plate Current         | 2 A             | D~C Plate Current 2.0 max. amperes                                  |
| D-C Grid Current          | 250 A           | D-C Grid Current -.250 max.amperes                                  |
| Plate Input               | 12 kW           | Plate Input 12 max. kw                                              |
| Plate Dissipation         | 6 kW            | Plate Dissipation 6 max. kw                                         |
| D-C Plate Voltage [1]     | 2500 V          | D-C Plate Voltage 2500 6000 volts                                   |
| D-C Plate Voltage [2]     | 6000 V          | D-C Plate Voltage 2500 6000 volts                                   |
| D-C Grid Voltage [1]      | -600 V          | D-C Grid Voltage -600 -800 -1000 volts                              |
| D-C Grid Voltage [2]      | -800 V          | D-C Grid Voltage -600 -800 -1000 volts                              |
| D-C Grid Voltage [3]      | -1000 V         | D-C Grid Voltage -600 -800 -1000 volts                              |
| Peak R=F Grid Voltage [1] | 1050 V          | Peak R=F Grid Voltage 1050 1300 1500 volts                          |
| Peak R=F Grid Voltage [2] | 1300 V          | Peak R=F Grid Voltage 1050 1300 1500 volts                          |
| Peak R=F Grid Voltage [3] | 1500 V          | Peak R=F Grid Voltage 1050 1300 1500 volts                          |

| PARAMETER                      | PUBLISHED VALUE | CONDITION / NOTE                                  |
|--------------------------------|-----------------|---------------------------------------------------|
| Peak R-F Plate Voltage [1]     | <b>1800 V</b>   | Peak R-F Plate Voltage 1800 5000 volts            |
| Peak R-F Plate Voltage [2]     | <b>5000 V</b>   | Peak R-F Plate Voltage 1800 5000 volts            |
| D=C Plate Current [1]          | <b>1.27 A</b>   | D=C Plate Current 1.27 1.6 1.6 amperes            |
| D=C Plate Current [2]          | <b>1.6 A</b>    | D=C Plate Current 1.27 1.6 1.6 amperes            |
| D=C Plate Current [3]          | <b>1.6 A</b>    | D=C Plate Current 1.27 1.6 1.6 amperes            |
| D=-C Grid Current [1]          | <b>233 A</b>    | D=-C Grid Current 233 -230 .210 auperes           |
| D=-C Grid Current [2]          | <b>-230 A</b>   | D=-C Grid Current 233 -230 .210 auperes           |
| D=-C Grid Current [3]          | <b>210 A</b>    | D=-C Grid Current 233 -230 .210 auperes           |
| Driving Power, approximate [1] | <b>245 W</b>    | Driving Power, approximate 245 315 watts          |
| Driving Power, approximate [2] | <b>315 W</b>    | Driving Power, approximate 245 315 watts          |
| Power Output, approximate [1]  | <b>2.15 W</b>   | Power Output, approximate 2.15 B4 T.25 kilowatts  |
| Power Output, approximate [2]  | <b>25 W</b>     | Power Output, approximate 2.15 B4 T.25 kilowatts  |
| TYPES F [1]                    | <b>6925 W</b>   | TYPES F-6925, F-6926 & F-6926J POWER TRIODES      |
| TYPES F [2]                    | <b>6926 W</b>   | TYPES F-6925, F-6926 & F-6926J POWER TRIODES      |
| TYPES F [3]                    | <b>6926 W</b>   | TYPES F-6925, F-6926 & F-6926J POWER TRIODES      |
| F                              | <b>6926 W</b>   | F-6926 POWER TRIODE                               |
| each terminal upon request, F  | <b>6926 W</b>   | each terminal upon request, F-6926-J POWER TRIODE |



## SOURCE OPERATING CONDITIONS

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# 1962 ITT Industrial and Transmitting Tubes

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

## 1962 ITT INDUSTRIAL AND TRANSMITTING TUBES

| CHARACTERISTICS          |                 |                  |
|--------------------------|-----------------|------------------|
| PARAMETER                | PUBLISHED VALUE | CONDITION / NOTE |
| GridPlateCapacitance     | 20.5 pF         | —                |
| GridFilamentCapacitance  | 18 pF           | —                |
| PlateFilamentCapacitance | 1.9 pF          | —                |

| OTHER                    |                 |                  |
|--------------------------|-----------------|------------------|
| PARAMETER                | PUBLISHED VALUE | CONDITION / NOTE |
| Maximum DC Grid Voltage  | -1.2 kV         | ClassC           |
| Maximum DC Plate Current | 2 A             | ClassC           |
| Maximum DC Grid Current  | 250 mA          | ClassC           |
| Maximum Plate Input      | 12 kW           | ClassC           |
| Typical Power Output     | 7.25 kW         | ClassC           |

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