



## ELECTRONIC TUBE REFERENCE

**6017**

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

**1 SECTION**  
CONSTRUCTION  
**TRIODE**

Metal-ceramic transmitting triode for grounded-grid Class B or Class C RF power-amplifier and oscillator service.

## GENERAL CHARACTERISTICS

|                     |                   |                      |               |
|---------------------|-------------------|----------------------|---------------|
| BASE DESIGNATION    | —                 | BASE PINS            | —             |
| NOMINAL HEATER      | 10 V / 17 A       | PARALLEL HEATER      | — / —         |
| HEATING             | Indirect          | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Separate cathodes | SECTION CONSTRUCTION | Similar       |

## SECTION RATINGS

|                           |        |
|---------------------------|--------|
| <b>SECTION 1</b> Triode   |        |
| MAXIMUM PLATE DISSIPATION | 1000 W |
| MAXIMUM GRID DISSIPATION  | 50 W   |

Metal-and-ceramic transmitting triode for grounded-grid Class B or Class C power-amplifier and oscillator service.



## SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

# 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          |
| HeaterOrFilamentVoltageNominal                                 | 10 V            | —                         |
| HeaterOrFilamentCurrentNominal                                 | 17 A            | —                         |
| CarrierConditionsPerTubeForUseWithAMaximumModulationFactorOf10 | 1               | Published datasheet table |
| DCPlateVoltage3000MaxVolts                                     | 3000 V          | Published datasheet table |
| DPlateCurrent580MaxMilliamperes                                | 580 mA          | Published datasheet table |
| PlateDissipation1000MaxWatts                                   | 1000 W          | Published datasheet table |
| DCPlateVoltage2500Volts                                        | 2500 V          | Published datasheet table |
| DGridVoltage50Volts                                            | -50 V           | Published datasheet table |
| PeakRFPlateVoltage1000Volts                                    | 1000 V          | Published datasheet table |
| PeslkRFGridVoltage150Volts                                     | 150 V           | Published datasheet table |
| DPlateCurrent570Milliamperes                                   | 570 mA          | Published datasheet table |
|                                                                |                 |                           |

| PARAMETER                         | PUBLISHED VALUE | CONDITION / NOTE          |
|-----------------------------------|-----------------|---------------------------|
| DrivingPowerApproximate78Watts    | <b>78 W</b>     | Published datasheet table |
| PowerOutputApproximate450Watts    | <b>450 W</b>    | Published datasheet table |
| DGridVoltage50Volts               | <b>-50 V</b>    | Published datasheet table |
| PeakRFPlateVoltage1000Volts       | <b>1000</b>     | Published datasheet table |
| PeakRFGridVoltage150Volts         | <b>150 V</b>    | Published datasheet table |
| DPlateCurrent570Milliamperes      | <b>570 mA</b>   | Published datasheet table |
| DGridCurrent75Milliamperes        | <b>75</b>       | Published datasheet table |
| DrivingPowerApproximateTd240Watts | <b>240</b>      | Published datasheet table |
| PowerOutputf515Watts              | <b>515 W</b>    | Published datasheet table |
| DCPlateVoltage3000MaxVolts        | <b>3000 V</b>   | Published datasheet table |
| DCCPlateCurrent07MaxAmpere        | <b>700 mA</b>   | Published datasheet table |
| PlateDissipation1000MaxWatts      | <b>1000 W</b>   | Published datasheet table |
| GridDissipation50MaxWatts         | <b>50 W</b>     | Published datasheet table |
| DCPlateVoltage2000Volts           | <b>2000 V</b>   | Published datasheet table |
|                                   |                 |                           |

| PARAMETER                                                     | PUBLISHED VALUE | CONDITION / NOTE          |
|---------------------------------------------------------------|-----------------|---------------------------|
| DCGridVoltage35Volts                                          | <b>-35 V</b>    | Published datasheet table |
| CarrierConditionsPerTubeForUseWithMaximumModulationFactorOf10 | <b>1</b>        | Published datasheet table |
| DPlateVoltage2400MaxVolts                                     | <b>2400 V</b>   | Published datasheet table |
| DCGridVoltage400MaxVolts                                      | <b>-400 V</b>   | Published datasheet table |
| DCPlateCurrent580MaxMilliamperes                              | <b>580 mA</b>   | Published datasheet table |
| DGridCurrent15CMaxMilliamperes                                | <b>15 mA</b>    | Published datasheet table |
| PlateDissipation670MaxWatts                                   | <b>670 W</b>    | Published datasheet table |
| DPlateVoltage24002000VoltsValue1                              | <b>2400 V</b>   | Published datasheet table |
| DPlateVoltage24002000VoltsValue2                              | <b>2000 V</b>   | Published datasheet table |
| DGridVoltage200200VoltsValue1                                 | <b>-200 V</b>   | Published datasheet table |
| DGridVoltage200200VoltsValue2                                 | <b>-200 V</b>   | Published datasheet table |
| PeakRFPlateVoltage18001500VoltsValue1                         | <b>1800 V</b>   | Published datasheet table |
| PeakRFPlateVoltage18001500VoltsValue2                         | <b>1500 V</b>   | Published datasheet table |
| PeakRFGridVoltage350330VoltsValue1                            | <b>350 V</b>    | Published datasheet table |
|                                                               |                 |                           |

| PARAMETER                                       | PUBLISHED VALUE | CONDITION / NOTE          |
|-------------------------------------------------|-----------------|---------------------------|
| PeakRFGridVoltage350330VoltsValue2              | <b>330 V</b>    | Published datasheet table |
| DPlateCurrent425350MilliamperesValue1           | <b>425 mA</b>   | Published datasheet table |
| DPlateCurrent425350MilliamperesValue2           | <b>350 mA</b>   | Published datasheet table |
| DGridCurrentApproximate125110MilliamperesValue1 | <b>125 mA</b>   | Published datasheet table |
| DGridCurrentApproximate125110MilliamperesValue2 | <b>110 mA</b>   | Published datasheet table |
| DrivingPowerApproximate5035WattsValue1          | <b>50 W</b>     | Published datasheet table |
| DrivingPowerApproximate5035WattsValue2          | <b>35 W</b>     | Published datasheet table |
| PowerOutputApproximate675470WattsValue1         | <b>675 W</b>    | Published datasheet table |
| PowerOutputApproximate675470WattsValue2         | <b>470 W</b>    | Published datasheet table |
| DPlateVoltage25002000VoltsValue1                | <b>2500 V</b>   | Published datasheet table |
| DPlateVoltage25002000VoltsValue2                | <b>2000 V</b>   | Published datasheet table |
| DCGridVoltage200200VoltsValue1                  | <b>-200 V</b>   | Published datasheet table |
| DCGridVoltage200200VoltsValue2                  | <b>-200 V</b>   | Published datasheet table |
| PeakRFFlateVoltage18001500VoltsValue1           | <b>1800 V</b>   | Published datasheet table |
|                                                 |                 |                           |

| PARAMETER                                         | PUBLISHED VALUE | CONDITION / NOTE          |
|---------------------------------------------------|-----------------|---------------------------|
| PeakRFFlateVoltage18001500VoltsValue2             | <b>1500 V</b>   | Published datasheet table |
| PeakRFGridVoltage350330VoltsValue1                | <b>350 V</b>    | Published datasheet table |
| PeakRFGridVoltage350330VoltsValue2                | <b>330 V</b>    | Published datasheet table |
| DCPlateCurrent425350MilliamperesValue1            | <b>425 mA</b>   | Published datasheet table |
| DCPlateCurrent425350MilliamperesValue2            | <b>350 mA</b>   | Published datasheet table |
| DCGridCurrentApproximate125110MilljiamperesValue1 | <b>125 A</b>    | Published datasheet table |
| DCGridCurrentApproximate125110MilljiamperesValue2 | <b>110 A</b>    | Published datasheet table |
| DrivingPowerApproximate175137WattsValue1          | <b>175 W</b>    | Published datasheet table |
| DrivingPowerApproximate175137WattsValue2          | <b>137 W</b>    | Published datasheet table |
| PowerCutputlApproximate800575WattsValue1          | <b>800 W</b>    | Published datasheet table |
| PowerCutputlApproximate800575WattsValue2          | <b>575 W</b>    | Published datasheet table |
| DPlateVoltage3000MaxVolts                         | <b>3000 V</b>   | Published datasheet table |
| DCGridVoltage500MaxVolts                          | <b>-500 V</b>   | Published datasheet table |
| DCGridCurrent150MaxMilliamperes                   | <b>150 mA</b>   | Published datasheet table |
|                                                   |                 |                           |

| PARAMETER                                | PUBLISHED VALUE | CONDITION / NOTE          |
|------------------------------------------|-----------------|---------------------------|
| PlateDissipation1000MaxWatts             | 1000 W          | Published datasheet table |
| DCPlateVoltage25002800VoltsValue1        | 2500 V          | Published datasheet table |
| DCPlateVoltage25002800VoltsValue2        | 2800 V          | Published datasheet table |
| DCGridVoltage200250VoltsValue1           | -200 V          | Published datasheet table |
| DCGridVoltage200250VoltsValue2           | -250 V          | Published datasheet table |
| PeakRIPlateVoltage17001800VoltsValue1    | 1700 V          | Published datasheet table |
| PeakRIPlateVoltage17001800VoltsValue2    | 1800 V          | Published datasheet table |
| PeakRFGridVoltage325425VoltsValue1       | 325 V           | Published datasheet table |
| PeakRFGridVoltage325425VoltsValue2       | 425 V           | Published datasheet table |
| DCPlateCurrent380600MilliamperesValue1   | 380 mA          | Published datasheet table |
| DCPlateCurrent380600MilliamperesValue2   | 600 mA          | Published datasheet table |
| DGridCurrentApproximateA5110Milllamperes | 110 A           | Published datasheet table |
| DrivingPowerApproximate2850WattsValue1   | 28 W            | Published datasheet table |
| DrivingPowerApproximate2850WattsValue2   | 50 W            | Published datasheet table |
|                                          |                 |                           |

| PARAMETER                                | PUBLISHED VALUE | CONDITION / NOTE          |
|------------------------------------------|-----------------|---------------------------|
| PowerOutputApproximate375Q00WattsValue1  | 375 W           | Published datasheet table |
| PowerOutputApproximate375Q00WattsValue2  | 0 W             | Published datasheet table |
| DCFlateVoltage25002800VoltsValue1        | 2500 V          | Published datasheet table |
| DCFlateVoltage25002800VoltsValue2        | 2800 V          | Published datasheet table |
| DGridVoltage200250VoltsValue1            | -200 V          | Published datasheet table |
| DGridVoltage200250VoltsValue2            | -250 V          | Published datasheet table |
| PeakRFPlateVoltage17001800VoltsValue1    | 1700 V          | Published datasheet table |
| PeakRFPlateVoltage17001800VoltsValue2    | 1800 V          | Published datasheet table |
| PeakRFGridVoltage325H2osVolts            | 325 V           | Published datasheet table |
| DPlateCurrent380600MilliamperesValue1    | 380 mA          | Published datasheet table |
| DPlateCurrent380600MilliamperesValue2    | 600 mA          | Published datasheet table |
| DGridCurrentApproximateG5110Milliamperes | 110 mA          | Published datasheet table |
| PowerOutput5001100WattsValue1            | 500 W           | Published datasheet table |
| PowerOutput5001100WattsValue2            | 1100 W          | Published datasheet table |
|                                          |                 |                           |

| PARAMETER                                           | PUBLISHED VALUE | CONDITION / NOTE          |
|-----------------------------------------------------|-----------------|---------------------------|
| AtCrestOfSudioFreguencyCycieWithModulationFactorOf1 | 1               | Published datasheet table |

## TUBE TINKER

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