



## ELECTRONIC TUBE REFERENCE

7393

Specialized - Traveling Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRAVELINGWAVE

Ruggedized low-noise traveling-wave amplifier covering 4-8 GHz for radar receivers, military systems, microwave relay, ECM, and radiometry.

## GENERAL CHARACTERISTICS

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

## SECTION RATINGS

## SECTION 1 TravelingWave

*No fixed ratings recorded.*

*Promoted only from clearly labeled printed ratings/characteristics; specialized and operating data retained in parameter rows.*

Ruggedized low-noise broadband traveling-wave tube for 4000 to 8000 MHz. It is supplied as a packaged assembly with permanent focusing magnets and is intended for radar receivers, military systems, microwave relay, ECM, and radiometry.



## SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

# 1950 General Electric Transmitting Types

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

## 1950 GENERAL ELECTRIC TRANSMITTING TYPES

## Section 1 · TravelingWave

| CHARACTERISTIC                 |                 |                           |
|--------------------------------|-----------------|---------------------------|
| PARAMETER                      | PUBLISHED VALUE | CONDITION / NOTE          |
| Frequency minimum              | 4000 MHz        | Published datasheet value |
| Frequency maximum              | 8000 MHz        | Published datasheet value |
| Noise figure maximum           | 10 dB           | Published datasheet value |
| Small-signal gain minimum      | 25 dB           | Published datasheet value |
| Saturated power output nominal | 5 mW            | Published datasheet value |

| OTHER                 |                 |                           |
|-----------------------|-----------------|---------------------------|
| PARAMETER             | PUBLISHED VALUE | CONDITION / NOTE          |
| Collector dissipation | 1 W             | Published datasheet value |



## 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 · TravelingWave

| OTHER                                                |                  |                                             |
|------------------------------------------------------|------------------|---------------------------------------------|
| PARAMETER                                            | PUBLISHED VALUE  | CONDITION / NOTE                            |
| LESS THAN 10 DB NOISE FIGURE<br>4000-8000 MEGACYCLES | -8000 MEGACYCLES | Published datasheet; semantic line recovery |

| PARAMETER                                                                                                      | PUBLISHED VALUE         | CONDITION / NOTE                            |
|----------------------------------------------------------------------------------------------------------------|-------------------------|---------------------------------------------|
| Frequency..... . . . .<br>... . . . . 4000-8000<br>Megacycles Mounting Position<br>—Any                        | <b>-8000 Megacycles</b> | Published datasheet; semantic line recovery |
| Voltage ..... 6.3 Volts DC<br>Socket—Woinchester PM6P-LS<br>(or equivalent)                                    | <b>6.3 Volts</b>        | Published datasheet; semantic line recovery |
| Current, nominal. .0.3<br>Ampere Helix—Winchester<br>PM1P-LS (or equivalent)                                   | <b>0.3 Ampere</b>       | Published datasheet; semantic line recovery |
| A heater-voltage regulatxon<br>of I2 percent is recommended<br>Collector—Winchester PM1P-LS<br>(or equivalent) | <b>2 percent</b>        | Published datasheet; semantic line recovery |
| Noise Figure*, maximum. .<br>... .10 Decibels Over-all<br>Dimensions                                           | <b>10 Decibels</b>      | Published datasheet; semantic line recovery |
| Small-Signal Gain, minimum.<br>... . . . . 25<br>Decibels Length. .... .. e<br>i, 925 Inches                   | <b>25 Decibels</b>      | Published datasheet; semantic line recovery |
| Saturated Power Output,<br>nominal. . . . .5.0<br>Milliwatts Width. . . . .<br>o 4.525 Inches                  | <b>5 Milliwatts</b>     | Published datasheet; semantic line recovery |
| Collector Dissipation. .<br>..... 1.0<br>Watt Height.. . . . .<br>... .. 2.914<br>Inches                       | <b>1 Watt</b>           | Published datasheet; semantic line recovery |
| Impedance, Coaxial.....<br>..... 50 Ohms<br>Weight, Tube and Magnet,<br>approximate. . . .11.5<br>Pounds       | <b>50 Ohms</b>          | Published datasheet; semantic line recovery |
| Electrode-No. 1 Voltage,<br>Grid. ... .. L ee . -20<br>to -25 Volts                                            | <b>1 Volt</b>           | Published datasheet; semantic line recovery |
| Electrode-No. 1 Voltage,<br>Grid. ... .. L ee . -20<br>to -25 Volts                                            | <b>25 Volts</b>         | Published datasheet; semantic line recovery |
| Electrode-No. 2 Voltage,<br>Anode. . . . . e 25 to 50<br>Volts                                                 | <b>2 Volt</b>           | Published datasheet; semantic line recovery |
|                                                                                                                |                         |                                             |

| PARAMETER                                                                                      | PUBLISHED VALUE         | CONDITION / NOTE                            |
|------------------------------------------------------------------------------------------------|-------------------------|---------------------------------------------|
| Electrode-No. 2 Voltage,<br>Anode. . . . . e 25 to 50<br>Volts                                 | <b>50 Volts</b>         | Published datasheet; semantic line recovery |
| Electrode-Nao. 3 Voltage. .<br>. . . . L e 30 to 100 Volts                                     | <b>3 Volt</b>           | Published datasheet; semantic line recovery |
| Electrode-Nao. 3 Voltage. .<br>. . . . L e 30 to 100 Volts                                     | <b>100 Volts</b>        | Published datasheet; semantic line recovery |
| Electrode-No. 4 Voltage. . .<br>... . e 150 to 306 Volts                                       | <b>4 Volt</b>           | Published datasheet; semantic line recovery |
| Electrode-No. 4 Voltage. . .<br>... . e 150 to 306 Volts                                       | <b>306 Volts</b>        | Published datasheet; semantic line recovery |
| Current, MAXITNUIM . . . .<br>L0t e e 50 Microamperes                                          | <b>50 Microamperes</b>  | Published datasheet; semantic line recovery |
| Collector VOILARE. . . . .<br>o e 550 to 750 Volts                                             | <b>750 Volts</b>        | Published datasheet; semantic line recovery |
| Beam CUITEN. . . . . e e e 500<br>to 850 Microamperes                                          | <b>850 Microamperes</b> | Published datasheet; semantic line recovery |
| Acoustic noise (operating)<br>135 decibels, 25 to 12,000<br>cycles per second random<br>noise. | <b>135 decibels</b>     | Published datasheet; semantic line recovery |

## TUBE TINKER

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