



## ELECTRONIC TUBE REFERENCE

**6237**

Specialized - Klystron electronic tube

CONSOLIDATED TECHNICAL DATA

**1 SECTION**  
CONSTRUCTION  
**KLYSTRON**

Three-resonator tunable UHF television klystron designed for broadband visual-amplifier service with roughly 12 kW synchronizing-peak output.

## GENERAL CHARACTERISTICS

|                     |                   |                      |               |
|---------------------|-------------------|----------------------|---------------|
| BASE DESIGNATION    | —                 | BASE PINS            | —             |
| NOMINAL HEATER      | 6.3 V / 38 A      | PARALLEL HEATER      | — / —         |
| HEATING             | Indirect          | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Separate cathodes | SECTION CONSTRUCTION | Similar       |

## SECTION RATINGS

|                                                                                                                                                                                                                                                                                                                                   |         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| <b>SECTION1</b> Klystron                                                                                                                                                                                                                                                                                                          |         |
| MAXIMUM PLATE DISSIPATION                                                                                                                                                                                                                                                                                                         | 51000 W |
| <i>Special-purpose data not represented by fixed promoted fields are preserved in TUBE_SECTION_PARAMETER. Klystron maximum beam voltage/current, collector dissipation, RF drive/output, cooling, and frequency data are preserved as parameters; no semantically matching standard plate/screen promoted fields were forced.</i> |         |

Three-resonator tunable UHF television klystron for broadband visual-amplifier service, providing about 12 kW synchronizing-peak output.

## 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 · Klystron

| OTHER                           |                 |                  |
|---------------------------------|-----------------|------------------|
| PARAMETER                       | PUBLISHED VALUE | CONDITION / NOTE |
| Maximum Plate Dissipation       | 51000 W         | —                |
| Synchronizing Peak Power Output | 12 kW           | —                |

| CHARACTERISTIC     |                 |                  |
|--------------------|-----------------|------------------|
| PARAMETER          | PUBLISHED VALUE | CONDITION / NOTE |
| Frequency Minimum  | 470 MHz         | —                |
| Frequency Maximum  | 890 MHz         | —                |
| Power Gain Minimum | 200             | —                |

## 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 · Klystron

| CHARACTERISTIC         |                 |                  |
|------------------------|-----------------|------------------|
| PARAMETER              | PUBLISHED VALUE | CONDITION / NOTE |
| FrequencyRange         | 470–530 MHz     | —                |
| TelevisionChannelRange | 14–23           | —                |

| OTHER                                             |                 |                                     |
|---------------------------------------------------|-----------------|-------------------------------------|
| PARAMETER                                         | PUBLISHED VALUE | CONDITION / NOTE                    |
| MaximumBeamVoltage                                | 18 kV           | BroadbandTelevision                 |
| MaximumBeamCurrent                                | 3.25 A          | BroadbandTelevision                 |
| MaximumCollectorDissipation                       | 51 kW           | BroadbandTelevision                 |
| TypicalBeamVoltage                                | 17 kV           | BroadbandTelevision; Bandwidth=6MHz |
| SynchronizingPowerOutput                          | 12 kW           | BroadbandTelevision; Bandwidth=6MHz |
| will provide                                      | 12 kW           | —                                   |
| gain of approximately                             | 200 C           | —                                   |
| Heater Voltage                                    | 6.3 V           | —                                   |
| Pressure Drop at Rated Flow approximate           | 65 lb           | —                                   |
| Drift Tubes                                       | 2 gal/min       | —                                   |
| Pressure Drop at Rated Flow approximate           | 5 psi           | —                                   |
| Water Pressure                                    | 80 psi          | —                                   |
| Outlet Water Temperature                          | 70 C            | —                                   |
| Output Seals                                      | 15 ft3/min      | —                                   |
| Glass Temperature                                 | 150 C           | —                                   |
| D- Beam Voltage                                   | 18 kV           | —                                   |
| Driving Power                                     | 15 C            | —                                   |
| Pedestal Level                                    | 33.7 W          | —                                   |
| Pedestal level                                    | 6.72 kW         | —                                   |
| heater voltage should be started at approximetely | 8 V             | —                                   |
| proximately                                       | 2.5 A           | —                                   |
| v Saturation power level                          | 18 C            | —                                   |

## TUBE TINKER

An independent reference for electronic tubes, vacuum tubes, and their source documents.

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