



## ELECTRONIC TUBE REFERENCE

# 7398

Specialized - Magnetron electronic tube

CONSOLIDATED TECHNICAL DATA

**1 SECTION**  
CONSTRUCTION  
**MAGNETRON**

Packaged voltage-tunable continuous-wave magnetron covering approximately 2.2–3.85 GHz, providing at least 2 W output as a complete variable-frequency RF source.

## GENERAL CHARACTERISTICS

|                     |                   |                      |               |
|---------------------|-------------------|----------------------|---------------|
| BASE DESIGNATION    | —                 | BASE PINS            | —             |
| NOMINAL HEATER      | 2.5 V / 3 A       | PARALLEL HEATER      | — / —         |
| HEATING             | Indirect          | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Separate cathodes | SECTION CONSTRUCTION | Similar       |

## SECTION RATINGS

|                                                                                                                                       |        |
|---------------------------------------------------------------------------------------------------------------------------------------|--------|
| <b>SECTION 1</b> Magnetron                                                                                                            |        |
| MAXIMUM PLATE VOLTAGE                                                                                                                 | 1250 V |
| <i>Promoted only from clearly labeled printed ratings/characteristics; specialized and operating data retained in parameter rows.</i> |        |

Packaged voltage-tunable magnetron for 2200 to 3850 MHz. It is a complete RF power-source package and provides at least 2 W CW output across the frequency range.



## 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 · Magnetron

| CHARACTERISTIC    |                 |                           |
|-------------------|-----------------|---------------------------|
| PARAMETER         | PUBLISHED VALUE | CONDITION / NOTE          |
| Frequency minimum | 2200 MHz        | Published datasheet value |
| Frequency maximum | 3850 MHz        | Published datasheet value |

| OTHER                 |                 |                           |
|-----------------------|-----------------|---------------------------|
| PARAMETER             | PUBLISHED VALUE | CONDITION / NOTE          |
| Anode current maximum | 30 mA           | Published datasheet value |
| Power input maximum   | 45 W            | ForcedAir                 |
| Power output minimum  | 2 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 · Magnetron

| OTHER                                  |                  |                                             |
|----------------------------------------|------------------|---------------------------------------------|
| PARAMETER                              | PUBLISHED VALUE  | CONDITION / NOTE                            |
| 2200-3850 MEGACYCLES 2 WATTS CW OUTPUT | -3850 MEGACYCLES | Published datasheet; semantic line recovery |
| 2200-3850 MEGACYCLES 2 WATTS CW OUTPUT | 2 WATTS          | Published datasheet; semantic line recovery |
|                                        |                  |                                             |

| PARAMETER                                                                                | PUBLISHED VALUE         | CONDITION / NOTE                            |
|------------------------------------------------------------------------------------------|-------------------------|---------------------------------------------|
| Anode Current. . . . . 30 Milliamperes                                                   | <b>30 Milliamperes</b>  | Published datasheet; semantic line recovery |
| Power Input, with forced-air cooling. . . . . 45 Watts                                   | <b>45 Watts</b>         | Published datasheet; semantic line recovery |
| Injection Electrode Voltage. . . . . 700 Volts                                           | <b>700 Volts</b>        | Published datasheet; semantic line recovery |
| Injection Electrode Current. . . . . 1 Milliamperes                                      | <b>1 Milliamperes</b>   | Published datasheet; semantic line recovery |
| Filament Current. . . . . 3.2 Amperes                                                    | <b>3.2 Amperes</b>      | Published datasheet; semantic line recovery |
| Filament Voltage™, approximate . . . . . 2.50 Volts                                      | <b>2.5 Volts</b>        | Published datasheet; semantic line recovery |
| Filament Current. . . . . 3 Amperes                                                      | <b>3 Amperes</b>        | Published datasheet; semantic line recovery |
| Anode Voltage at 3 Kilomegacycles. . . . . 1250 Volts                                    | <b>3 Kilomegacycles</b> | Published datasheet; semantic line recovery |
| Anode Voltage at 3 Kilomegacycles. . . . . 1250 Volts                                    | <b>1250 Volts</b>       | Published datasheet; semantic line recovery |
| Anode Current, BVEIARE. . . . . 20 Milliamperes                                          | <b>20 Milliamperes</b>  | Published datasheet; semantic line recovery |
| Injection Electrode Voltage, positive with respect to cathode . . . . . 300 to 600 Volts | <b>600 Volts</b>        | Published datasheet; semantic line recovery |
| Injection Electrode Current. . . . . 0.1 Milliamperes                                    | <b>0.1 Milliamperes</b> | Published datasheet; semantic line recovery |
| Power QEDUL, TIIITUIT . . . . . 2 Watts                                                  | <b>2 Watts</b>          | Published datasheet; semantic line recovery |
| * Filament current should be adjusted to 3.0 amperes.                                    | <b>3 amperes</b>        | Published datasheet; semantic line recovery |

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