

ELECTRONIC TUBE REFERENCE

7578

Specialized - Magnetron electronic tube

CONSOLIDATED TECHNICAL DATA  
1 SECTION  
CONSTRUCTION  
MAGNETRON

Mechanically tunable pulsed magnetron oscillator designed specifically for missile-beacon transponder applications.

GENERAL CHARACTERISTICS

|                     |                   |                      |               |
|---------------------|-------------------|----------------------|---------------|
| BASE DESIGNATION    | —                 | BASE PINS            | —             |
| NOMINAL HEATER      | 5 V / 1.75 A      | PARALLEL HEATER      | — / —         |
| HEATING             | Indirect          | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Separate cathodes | SECTION CONSTRUCTION | Similar       |

SECTION RATINGS

|                                                                              |        |
|------------------------------------------------------------------------------|--------|
| SECTION1 Magnetron                                                           |        |
| MAXIMUM PLATE VOLTAGE                                                        | 2800 V |
| MAXIMUM CATHODE CURRENT                                                      | 2 A    |
| Published maximum ratings and characteristics promoted from approved source. |        |

Mechanically tunable pulsed magnetron oscillator for missile beacon transponder applications.



## SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

# 1938 Raytheon

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

1938 RAYTHEON

## Section 1 · Magnetron

| OTHER                   |                 |                            |
|-------------------------|-----------------|----------------------------|
| PARAMETER               | PUBLISHED VALUE | CONDITION / NOTE           |
| HeaterVoltageNominal    | 5 V             | Nominal                    |
| HeaterCurrentNominal    | 1.75 A          | Nominal                    |
| Maximum Plate Voltage   | 2800 V          | —                          |
| Maximum Cathode Current | 2 A             | —                          |
| PulseService            | 1               | Pulsed magnetron operation |

| CHARACTERISTIC |                 |                  |
|----------------|-----------------|------------------|
| PARAMETER      | PUBLISHED VALUE | CONDITION / NOTE |
| FrequencyRange | —               | 5.4 to 5.9 GHz   |

## TUBE TINKER

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

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