

ELECTRONIC TUBE REFERENCE

2J58

Specialized - Magnetron electronic tube

CONSOLIDATED TECHNICAL DATA  
1 SECTION  
CONSTRUCTION  
MAGNETRON

Tunable pulsed magnetron oscillator covering approximately 2.97-3.02 GHz.

GENERAL CHARACTERISTICS

|                     |                   |                      |               |
|---------------------|-------------------|----------------------|---------------|
| BASE DESIGNATION    | —                 | BASE PINS            | —             |
| NOMINAL HEATER      | 6.3 V / 1.5 A     | PARALLEL HEATER      | — / —         |
| HEATING             | Indirect          | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Separate cathodes | SECTION CONSTRUCTION | Similar       |

SECTION RATINGS

|                                                                      |         |
|----------------------------------------------------------------------|---------|
| SECTION1 Magnetron                                                   |         |
| MAXIMUM PLATE VOLTAGE                                                | 14000 V |
| MAXIMUM PLATE DISSIPATION                                            | 200 W   |
| MAXIMUM CATHODE CURRENT                                              | 15 A    |
| Published ratings and characteristics promoted where clearly stated. |         |

Tunable pulsed magnetron oscillator covering approximately 2.97-3.02 GHz.

## 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

| CHARACTERISTICS            |                 |                                     |
|----------------------------|-----------------|-------------------------------------|
| PARAMETER                  | PUBLISHED VALUE | CONDITION / NOTE                    |
| Heater or filament voltage | 6.3 V           | Published nominal value             |
| Heater or filament current | 1.5 A           | Published nominal value             |
| Frequency range            | 2965–3019 MHz   | Published operating or tuning range |
| Magnetic field strength    | 1450 gauss      | Published operating value           |

| OTHER                     |                 |                                  |
|---------------------------|-----------------|----------------------------------|
| PARAMETER                 | PUBLISHED VALUE | CONDITION / NOTE                 |
| RF power output           | 60000 W         | Published operating condition    |
| Maximum anode voltage     | 14000 V         | Published maximum or peak rating |
| Maximum anode current     | 15 A            | Published peak rating            |
| Maximum anode dissipation | 200 W           | Published rating                 |