



## ELECTRONIC TUBE REFERENCE

# 7110

Specialized - Magnetron electronic tube

CONSOLIDATED TECHNICAL DATA

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

Forced-air-cooled tunable X-band pulsed magnetron with integral magnet, covering approximately 8.5–9.6 GHz and producing roughly 230 kW peak RF output.

## GENERAL CHARACTERISTICS

|                     |                   |                      |               |
|---------------------|-------------------|----------------------|---------------|
| BASE DESIGNATION    | —                 | BASE PINS            | —             |
| NOMINAL HEATER      | 9 V / 14.2 A      | PARALLEL HEATER      | — / —         |
| HEATING             | Indirect          | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Separate cathodes | SECTION CONSTRUCTION | Similar       |

## SECTION RATINGS

**SECTION 1** Magnetron

|                         |      |
|-------------------------|------|
| MAXIMUM CATHODE CURRENT | 32 A |
|-------------------------|------|

*Published ratings and characteristics promoted where clearly applicable; additional published values retained as parameters.*

Tunable forced-air-cooled pulsed magnetron with integral magnet, covering 8.5 to 9.6 GHz with approximately 230 kW peak RF output.

## SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

# 1940 RCA

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

1940 RCA

## Section 1 · Magnetron

| CHARACTERISTICS            |                 |                                   |
|----------------------------|-----------------|-----------------------------------|
| PARAMETER                  | PUBLISHED VALUE | CONDITION / NOTE                  |
| Heater or filament voltage | 9 V             | Published nominal value           |
| Heater or filament current | 14.2 A          | Published nominal/aggregate value |
| Frequency range            | 8500–9600 MHz   | Published tuning range            |

| OTHER                |                 |                           |
|----------------------|-----------------|---------------------------|
| PARAMETER            | PUBLISHED VALUE | CONDITION / NOTE          |
| Peak RF power output | 230000 W        | Pulsed oscillator service |