

ELECTRONIC TUBE REFERENCE

7541

Specialized - Magnetron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION  
CONSTRUCTION  
MAGNETRON

Hand-tunable forced-air-cooled X-band magnetron with integral magnet, covering approximately 8.5–9.6 GHz for pulsed oscillator service.

GENERAL CHARACTERISTICS

|                     |                   |                      |               |
|---------------------|-------------------|----------------------|---------------|
| BASE DESIGNATION    | —                 | BASE PINS            | —             |
| NOMINAL HEATER      | 13.75 V / 3.15 A  | PARALLEL HEATER      | — / —         |
| HEATING             | Indirect          | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Separate cathodes | SECTION CONSTRUCTION | Similar       |

SECTION RATINGS

|                                                                                                                                   |
|-----------------------------------------------------------------------------------------------------------------------------------|
| SECTION1 Magnetron                                                                                                                |
| No fixed ratings recorded.                                                                                                        |
| Published ratings and characteristics promoted where clearly applicable; additional source values retained as section parameters. |

Hand-tunable forced-air-cooled X-band magnetron with integral magnet for pulsed oscillator service from 8.5 to 9.6 GHz.

## SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

# 1947 Westinghouse

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

1947 WESTINGHOUSE

## Section 1 · Magnetron

**CHARACTERISTICS**

| PARAMETER                    | PUBLISHED VALUE      | CONDITION / NOTE                       |
|------------------------------|----------------------|----------------------------------------|
| Heater or filament voltage   | <b>13.75 V</b>       | Published nominal/representative value |
| Heater or filament current   | <b>3.15 A</b>        | Published nominal/representative value |
| Frequency range              | <b>8500–9600 MHz</b> | Published                              |
| Minimum cathode heating time | <b>150 s</b>         | Published                              |
| Heater current range         | <b>2.8 A–3.5 A</b>   | Published                              |

**OTHER**

| PARAMETER            | PUBLISHED VALUE | CONDITION / NOTE            |
|----------------------|-----------------|-----------------------------|
| Peak RF power output | <b>250000 W</b> | Typical across tuning range |
| Maximum pulse width  | <b>1.1 μs</b>   | Published                   |

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