ELECTRONIC TUBE REFERENCE

# 7589

Specialized - Magnetron electronic tube

CONSOLIDATED TECHNICAL DATA
**1 SECTION**
CONSTRUCTION
**MAGNETRON**

Western Electric pulsed magnetron oscillator for high-peak-power microwave generation with published operating data.

## General characteristics

| | | | |
|---|---|---|---|
| **BASE DESIGNATION** | — | **BASE PINS** | — |
| **NOMINAL HEATER** | 20 V / 4 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 promoted values where applicable; special microwave values retained as parameters.*

The 7589 is a Western Electric pulsed magnetron oscillator with published microwave operating data.

SOURCE OPERATING CONDITIONS

SOURCE PDF

# 1960 Western Electric Random 2

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

1960 WESTERN ELECTRIC RANDOM 2

## Section 1 · Magnetron

### CHARACTERISTICS

| PARAMETER | PUBLISHED VALUE | CONDITION / NOTE |
|---|---|---|
| Frequency range | **8500-9600 MHz** | Tunable |
| Peak power output | **425 kW** | Pulse |

### OTHER

| PARAMETER | PUBLISHED VALUE | CONDITION / NOTE |
|---|---|---|
| Peak anode voltage | **40 kV** | Pulse |
| Peak anode current | **40 A** | Pulse |