

ELECTRONIC TUBE REFERENCE

5789

Specialized - Magnetron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
MAGNETRON

High-power pulsed magnetron oscillator designed for radar and related short-pulse microwave applications at its specified operating frequency.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6 V / 2 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Magnetron	
MAXIMUM PLATE VOLTAGE	14000 V
MAXIMUM CATHODE CURRENT	20 A
Published maximum ratings and characteristics promoted semantically from the approved source.	

Fixed-frequency pulsed magnetron with integral cavity and magnet for high-power microwave pulse operation.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1950 Sylvania

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

1950 SYLVANIA

Section 1 · Magnetron

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Voltage	14000 V	—
Maximum Cathode Current	20 A	—
Peak Anode Voltage	12 kV	—
Peak Anode Current	16 A	—
Peak Input Power	240 kW	—
Peak Power Output	40 kW	—
Average Power Output	10 W	—
Duty Cycle Maximum	0.0006	—
Pulse Duration Maximum	1 us	—
Pulse Repetition Rate	1000 pps	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Frequency	35208 MHz	Fixed, OCR/source value

TUBE TINKER

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and their source documents.

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