



ELECTRONIC TUBE REFERENCE

3J31

Specialized - Magnetron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
MAGNETRON

Sylvania pulsed magnetron oscillator for microwave service, using high-voltage pulse excitation to generate high-peak-power RF within a defined frequency band.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6 V / 1.9 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Magnetron	
MAXIMUM PLATE VOLTAGE	16000 V
<i>Published source values promoted where applicable; additional values retained as parameters.</i>	

Sylvania 3J31 pulse magnetron for microwave operation; the supplied sheet specifies its operating-frequency band and pulsed anode ratings.



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
Operating frequency minimum	23792 MHz	—
Operating frequency maximum	24176 MHz	—
Peak anode voltage typical	13750 V	—

TUBE TINKER

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and their source documents.

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