ELECTRONIC TUBE REFERENCE

8543

Specialized - Magnetron electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
MAGNETRON

Fixed-frequency high-power pulsed magnetron designed for radar and related short-pulse microwave service in its specified operating band.

General characteristics

BASE DESIGNATION	_	**BASE PINS**	_
NOMINAL HEATER	6.3 V / 1.1 A	**PARALLEL HEATER**	_ / _
HEATING	Indirect	**SERIES OPERATION**	Not specified
CATHODE ARRANGEMENT	Separate cathodes	**SECTION CONSTRUCTION**	Similar

Section ratings

SECTION1 Magnetron

No fixed ratings recorded.

Pulsed magnetron interaction structure.

The Sylvania 8543 is a rugged fixed-frequency X-band pulsed magnetron for airborne weather-radar systems.

SOURCE OPERATING CONDITIONS

1964 RMA EIA

SOURCE PDF

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

1964 RMA EIA

Section 1 · Magnetron

CHARACTERISTICS		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Preheat Voltage	**6.3 V**	—
Heater Current	**1.1 A**	—
Minimum Preheat Time	**2 min**	—
Frequency	**9375 MHz**	Nominal
Frequency Tolerance	**30 MHz**	PlusMinus
Peak RF Power Output Minimum	**24 kW**	—
Pulling Factor	**16 MHz**	—
Pushing Factor Maximum	**0.2 MHz/A**	—

OTHER		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Maximum Peak Anode Voltage	**9000 V**	—
Maximum Duty Cycle	**0.001 ratio**	—
Maximum Pulse Width	**2.2 us**	—
Typical Peak Anode Voltage	**8000 V**	—
Average Power Output	**30 W**	—

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes, and their source documents.

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