

ADVANCE DATA

MECHANICAL DATA

Mounting Position	Any
Weight	3.75 Lbs. Max.
Cooling	Convection
Output Pressurization	45 psia Max.
Minimum Magnet Isolation	2 Inches
Output Coupling	Couples to UG-39/U
Vibration	5G, 5-500 cps
Altitude	55,000 Ft. Max.

ELECTRICAL DATA

HEATER CHARACTERISTICS

Voltage, Preheat	6.3 V
Current	1.1 A
Minimum Preheat Time	2.0 Minutes

RATINGS (Absolute Maximum)¹

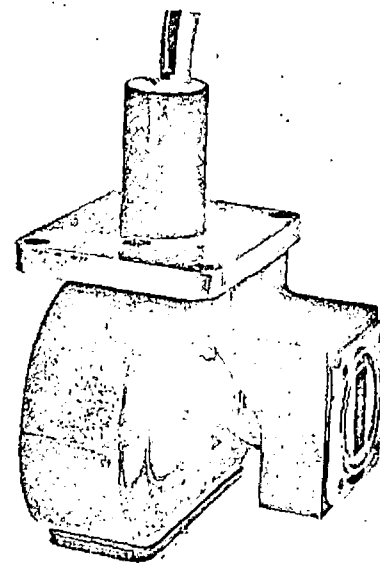
Peak Anode Voltage	9.0 kv
Heater Voltage	7.0 V
Heater Surge Current	4.0 A
Average Power Input	83.0 W
Anode Temperature	150 °C
Voltage Standing Wave Ratio	1.5:1
Duty Cycle	0.001
Pulse Width	2.2 μs
Rate of Rise of Voltage	100 kv/μs

TYPICAL OPERATION

Duty Cycle	0.001
Pulse Width	2.1 μs
Time of Rise of Voltage	0.1 μs
Average Anode Current	8.25 mA _{dc}
Peak Anode Voltage	8.0 kv
Average Power Output	30 W
Pulling Factor	16 Mc
Pushing Factor	0.2 Mc/a Max.
Thermal Factor	0.20 Mc/°C
Stability	0.5 %
Bandwidth	1.0 Mc
Minor Lobes	6 db
Heater Voltage, Radiate	4.5 V

QUICK REFERENCE DATA

X-Band Magnetron
 Fixed Frequency
 9375 ± 30 Mc
 Pulsed Operation
 24 kw Minimum Peak Power
 Output
 Convection Air Cooled
 Integral Magnets
 Ruggedized for Airborne
 Weather Radar Systems



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Electronic Components Group
 MICROWAVE DEVICE
 DIVISION
 WILLIAMSPORT, PA.

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NOTES:

1. If the independent absolute ratings are exceeded, serviceability of the tube may be impaired. Refer to MIL-E-1D, para. 6.5.
2. Dependable operation and maximum magnetron life can be realized only if the complete system is designed with the magnetron characteristics clearly in mind. This data sheet is intended to acquaint the reader with the basic characteristics of the magnetron and should not be used as an absolute guide. Additional information and assistance with specific applications may be obtained by contacting Sylvania Microwave Device Division, Williamsport, Pa.

OUTLINE

