



MECHANICAL

Mounting position	Any
Weight	Approx. 12 lbs.
Cooling	Forced air by directional ducts
Output pressurization	45 psia max.
Minimum magnet isolation	4 inches
Output coupling	Couples to UG-52A/U
Tuner drive mechanism	Rotating shaft*
Shock	30 G for 11 millisec.
Vibration	5 G, 5-500 cps
Tuner torque	Approx. 20 in. oz.

*Manual or servo tuned

ELECTRICAL

HEATER CHARACTERISTICS

Voltage	13.75 V
Current	3.2 A
Minimum preheat time	2.5 Minutes

RATINGS (Absolute maximum)¹

Heater voltage	15 V
Heater surge current	12 A
Average power input	690 W
Anode temperature	150 °C
Voltage standing wave ratio	1.5:1
Duty cycle	0.0013
Pulse width	3.3 usec.

TYPICAL OPERATION

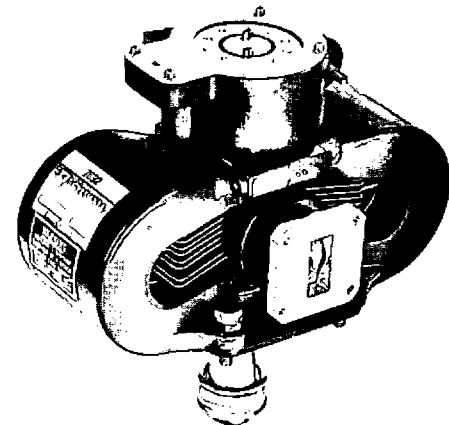
	Osc. 1	Osc. 2
Duty cycle	0.001	0.001
Pulse width	0.60 usec	1.0 usec
Rate of rise of voltage	225 kv/usec	225 kv/usec
Average anode current	27.5 mAdc	27.5 mAdc
Peak anode voltage	22.5 kv	22.5 kv
Pulling factor	12 Mc	12 Mc
Average power output	220 W	220 W
Pushing factor (max.)	0.5 Mc/A	0.5 Mc/A

¹If the independent absolute ratings are exceeded, serviceability of the tube may be impaired. Refer to MIL-E-1D, paragraph 6.5

NOTE: Dependable operation and maximum magnetron life can be realized only if the complete system is designed with the magnetron characteristics clearly in mind. This preliminary 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 Operations, Williamsport, Pa.

QUICK REFERENCE FACTS

X-band tunable magnetron
 9,200 to 9,550 Mc tunable
 220 kw peak power output
 Ruggedized
 Pulsed operation
 Integral magnets



Navigational and search radar systems utilize this high-power, ruggedized magnetron.

SYLVANIA ELECTRIC PRODUCTS, INC.
MICROWAVE DEVICE OPERATIONS
WILLIAMSPORT, PA.

May 5, 1961

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