



SYLVANIA

7619

engineering data service

ADVANCE DATA

MECHANICAL

Mounting position	Any
Weight	9 lbs.
Cooling	Forced air
Output pressurization	45 psi. gage
Minimum magnet isolation	4"
Output coupling	Mates with UG-600/U flange
Shock	15 G
Vibration	20 G - 54 to 2000 cps.

ELECTRICAL

HEATER CHARACTERISTICS

Voltage	12.6V
Current	2.8A
Minimum preheat time	4 Min.

RATINGS (absolute maximum)¹

Heater voltage	14.0 V
Heater surge current	10 A
Peak anode voltage	13 Kv
Average power input	110 W
Anode temperature	135°C
Voltage standing wave ratio	1.5/1
Duty cycle	.0006
Pulse width	1.0 usec.

TYPICAL OPERATION

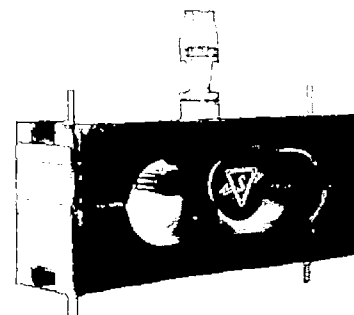
	Osc. I	Osc. II	Osc. III
Duty cycle	.00025	.0006	.0004
Pulse width	.25 usec.	1.0 usec.	.1 usec.
Rate of rise of voltage	200 Kv/usec.	150 Kv/usec.	200 Kv/usec.
Average anode current	5.0 mA _{dc}	6 mA _{dc}	8 mA _{dc}
Peak anode voltage	11.5 Kv	12.5 Kv	11.5 Kv
Average power output	11 W	12 W	15 W
Pulling factor	30 Mc	30 Mc	30 Mc
Pushing factor	2 Mc/A	2 Mc/A	1 Mc/A

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

from JEDEC release #3182, March 6, 1961

Ka band Magnetron
34,512 to 35,208 Mc fixed
40 Kw peak power output
Integral magnets
Ruggedized
Pulsed operation



This improved replacement for the 5789 eliminates vibration-induced frequency modulation. In addition, extensive redesigning permitted a reduction in dimensions and a 30% conservation of weight. Heat dissipation is vastly improved allowing twice the original rating duty factor.

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

November 18, 1960

