



engineering data service

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ADVANCE DATA

MECHANICAL DATA

Mounting Position	Any
Weight	7.3 lbs.
Cooling	Forced Air
Output Pressurization	50 psia
Minimum Magnet Isolation	4 Inches
Output Coupling	See Outline
Shock	50 G for 11 Milliseconds
Vibration	20-54 cps 0.2 Inch Max. Excursion 54-2000 cps, 30 G

ELECTRICAL DATA

Voltage	5.0 V
Current	3.1 A
Minimum Preheat Time	2 Minutes

RATINGS (Absolute Maximum)¹

Heater Voltage	6.0 V
Heater Surge Current	12 A
Peak Anode Voltage	16 Kv
Average Power Input	200 W
Anode Temperature	150 °C
Voltage Standing Wave Ratio	1.5:1
Duty Cycle	0.001
Pulse Width	1.0 usec
Peak Anode Current	See Figure 1

TYPICAL OPERATION

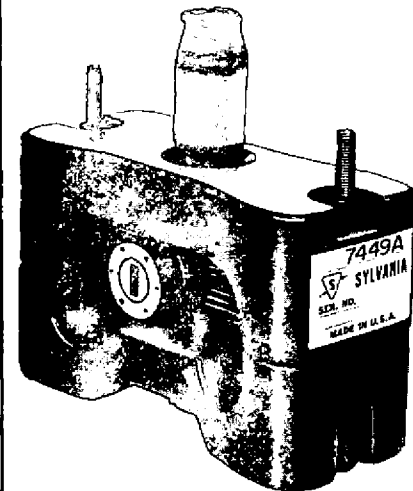
	Osc. I	Osc. II	Osc. III
Duty Cycle	0.0005	0.0004	.0004
Pulse Width	1.0	0.1	.02 usec
Rate of Rise of Voltage	150	250	400 Kv/usec
Average Anode Current	6.0	10	12 Ma
Peak Anode Voltage	14.5	15.0	15.2 Kv
Average Power Output	18.0	28.0	32 Watts
Pulling Factor	25	25	25 Mc
Pushing Factor	1.0	1.0	1.0 Mc/amp

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, Pennsylvania.

QUICK REFERENCE DATA

K band magnetron
23,800 to 24,200 Mc fixed
70 Kw peak power output
Pulsed operation
Integral magnets
Ruggedized - FM less than
0.5 Mc during vibration



SYLVANIA ELECTRIC
PRODUCTS INC.

MICROWAVE DEVICE
DIVISION

WILLIAMSPORT, PA.

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File Under
MAGNETRONS

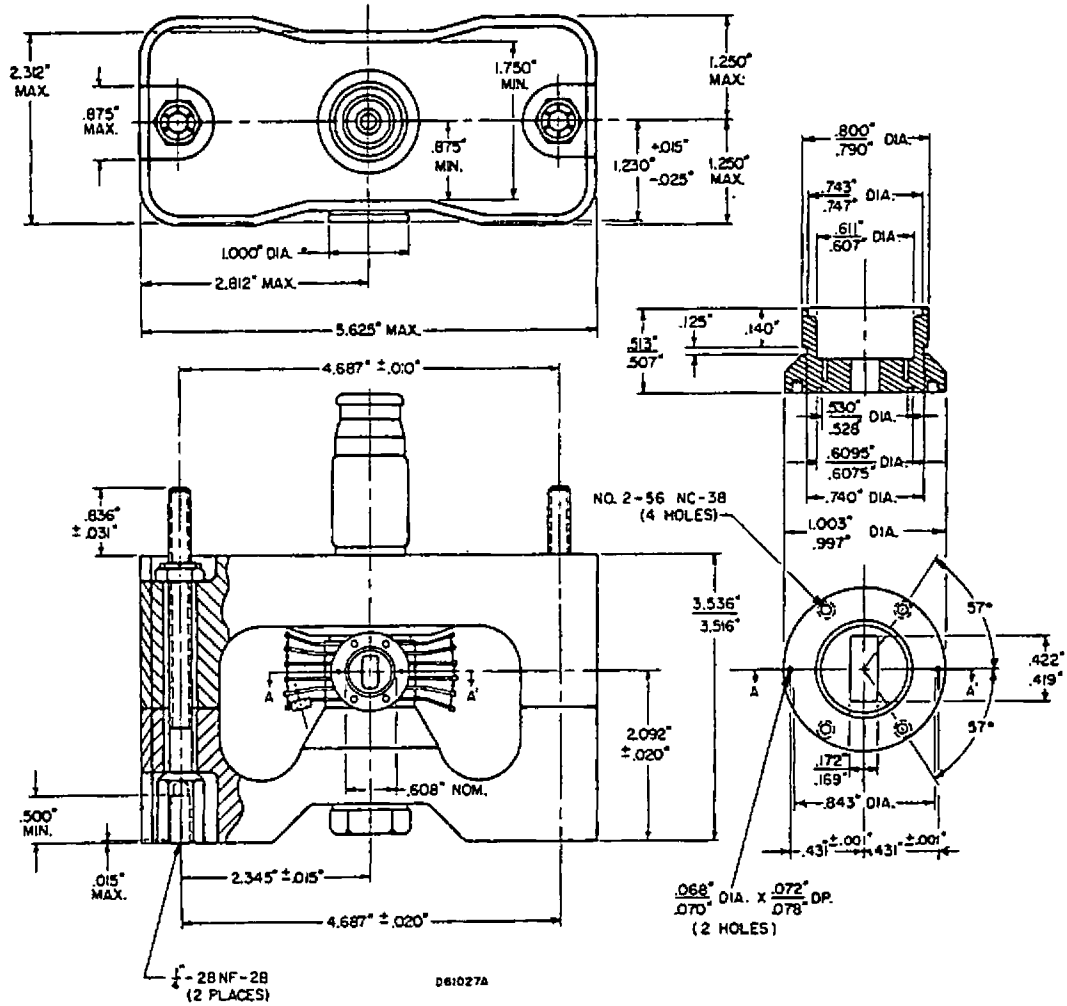


FIGURE 1

