



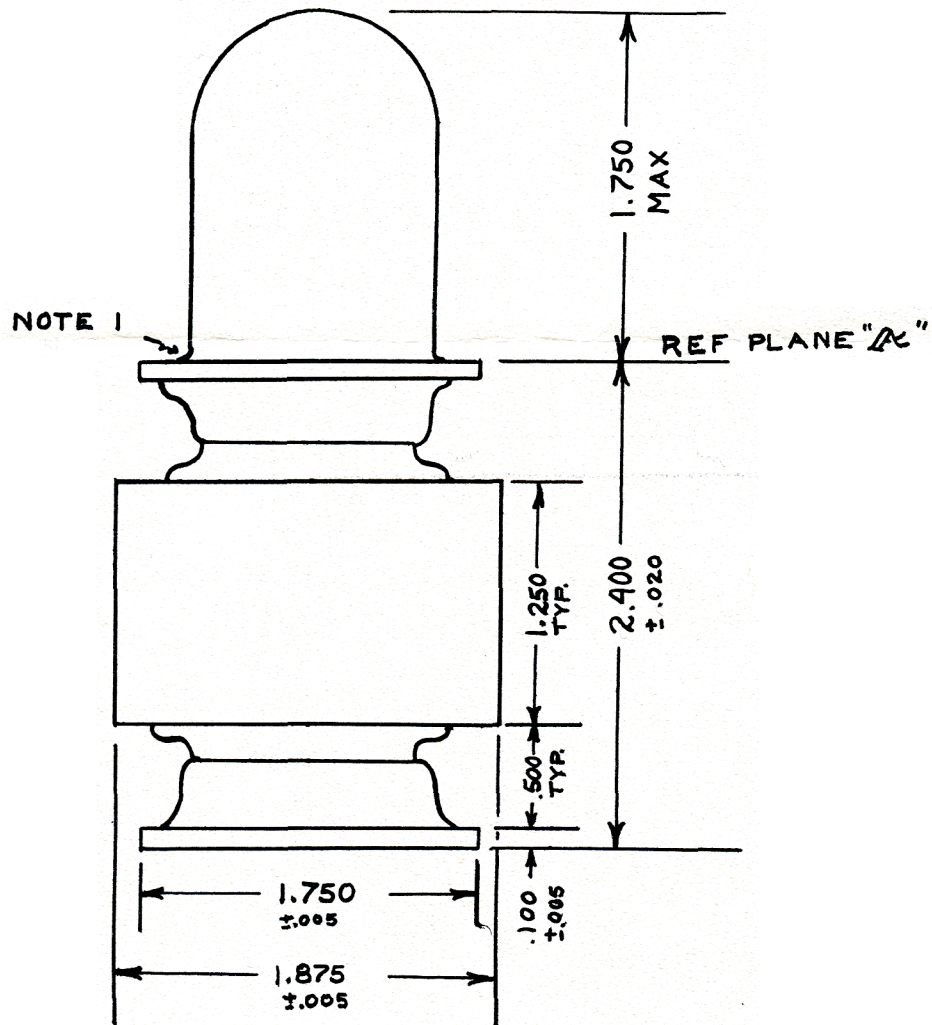
SPECIFICATION SHEET XL-81 MAGNETRON

The AMERICAN MICROWAVE XL-81 Magnetron is specially designed for domestic and industrial microwave heating applications. It features "capsule" design which allows insertion into a magnet and cooling system, rapid warm up and low cost. A novel grounded Cathode construction permits compact packaging, low filament transformer cost and high efficiency. Nominal operating conditions are:

	Min.	Max.	
Filament Voltage:	5.0	5.2	volts
Filament Current:	18	22	amps.
Warmup Time:	5		seconds
Cooling:	Note 1		
Anode Voltage:	3.4	3.6	kilowatts (peak)
Anode Current: (700 Watts Output)		.400	Ampere
	Note 2		
Anode Current: (1000 Watts Output)		.500	Ampere
	Note 2		
Nominal Efficiency: Flat Load	60%	72%	
Frequency:	2420	2470	mHz/sec.
VSWR		4:1	

Note 1: Tube may be liquid or air cooled by external cooling system into which unit is inserted. Heat transfer is accomplished with Dow Corning Heat Sink Compound. Liquid cooling requirements are .3 g.p.m. or air is required to limit anode temperature to 130° (about 80-100 c.f.m.)

Note 2: Flat load 1.2:1 max.



XL-81 MAGNETRON

**American
Microwave
Incorporated**

Two Research Road
Salt Lake City, Utah 84112