

L4651000

PULSE MAGNETRON

L-4651

5 Kilowatts Minimum Peak Power, Fixed Frequency
9375 $\pm$ 40 MHz, Positive Pulsed.

The L-4651 is a positive anode magnetron designed for use in compact, lightweight, low cost commercial airborne and marine radar systems.

ABSOLUTE RATINGS

	Units	Min.	Max.
Heater Voltage	V	...	6.9
Heater Surge Current	a	...	6.0
Cathode Pre-heat Time	sec.	60	...
Pulse Current	a	2.0	5.5
Pulse Length	μ sec.	.05	5.0
Rate of Rise of Voltage	kv/ μ s	25	50
VSWR	...	...	1.5:1
Duty Cycle	...	...	.0015
Average Input Power	W	...	30
Body Temperature	$^{\circ}$ C	-55	+125

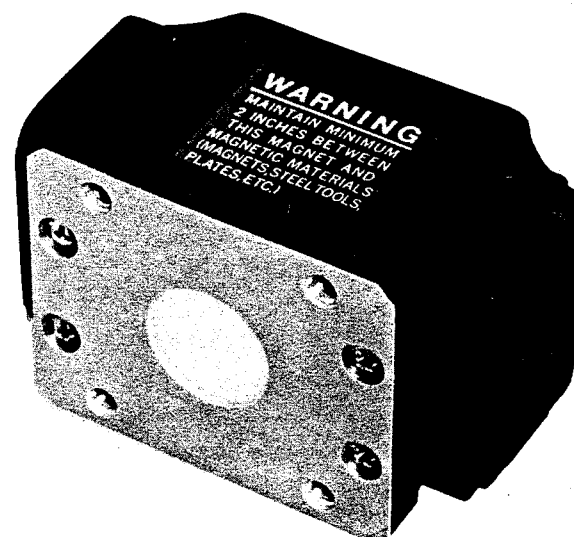
TYPICAL OPERATION

	Units	Typ.	Min.	Max.
Heater Voltage (Oper.)	V	6.3	6.0	6.6
Heater Voltage (Stdby)	V	6.3	6.0	6.6
Heater Current (Stdby)	A	0.75	...	.85
Peak Power Output	kw	5.5	5.0	...
Fixed Frequency	GHz	9.375	9.335	9.415
Peak Anode Voltage	kv	4.6	4.1	4.7
Pulse Current	a	4.5	...	...
Pulse Length	μ sec.	3.5	...	...
Duty Cycle	...	.00035	...	...
VSWR	...	1.05:1	...	...
R.F. Bandwidth*	MHz	0.5	...	0.7
Minor Lobe Ratio*	dB	8	6	...
Missing Pulses*	%	0.0	...	0.5
Pulling*	MHz	12	...	15
Pushing	MHz/a	1.0	...	1.5

*VSWR = 1.3:1

MECHANICAL RATINGS

Mounting Position	Any
Weight	13 oz.
Anode Cooling	Conduction
Vibration	(55-2000 Hz) 1G
Shock	Non-operating (10 msec) 6G
Altitude	45,000 ft.
Output Connector	Mates with UG-40A/U Modified with clearance holes.

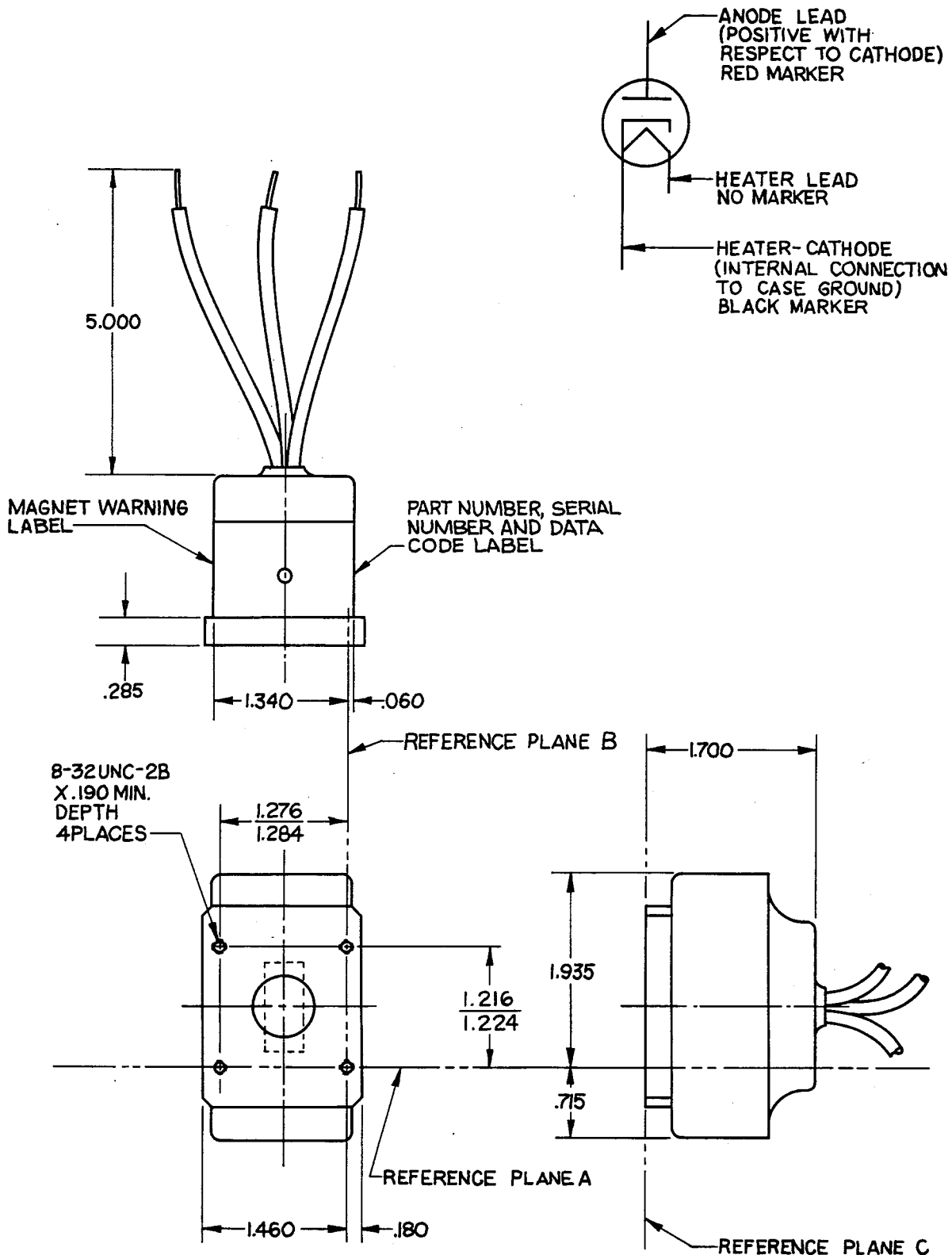
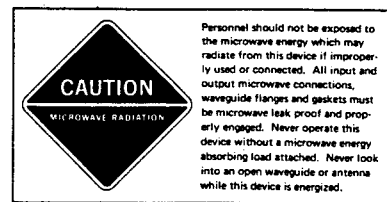
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SR MA2873

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