DESCRIPTION AND RATING

TR TUBE GL-1B24-A

The GL-1B24-A is a gas switching tube of the integral-cavity tunable type for use in simple duplexers in pulsed microwave circuits which do not require that the short circuit in the tube have a fixed electrical position. The tube operates to decouple effectively the receiver from a common transmitting and receiving antenna during a transmission period. The operational band is from 8490 to 9600 megacycles.

TECHNICAL INFORMATION

GENERAL	CHARA	CTER	TSTTCS

El	ec	tr	1c	al
----	----	----	----	----

Operational Band	8490	to 9600	Megacycles
Loaded Q, maximum		350	
Ignitor Starting Voltage, maximum		-1000	Volts
Ignitor Voltage Drop, Ignitor Current = 100 Microamper Minimum Maximum	res	325 450	Volts Volts
<pre>leakage Power peak power = 10 kw, pulse repetition rate = 1000pps, pulse duration = 0.5usec, ignitor current = 100ua, frequency = 9375mc, maximum</pre>		30	Milliwatts
Ignitor Interaction, Ignitor Current = 100 Microamperes, maximum		0.2	Decibel
Insertion Loss at 9375 Megacycles Maximum Minimum			Decibels Decibel
Recovery Time at 10 Kilowatts Peak, 3 Decibels Down, maximum		ħ	Microseconds
echanical			
Mounting Position - Any			

Me

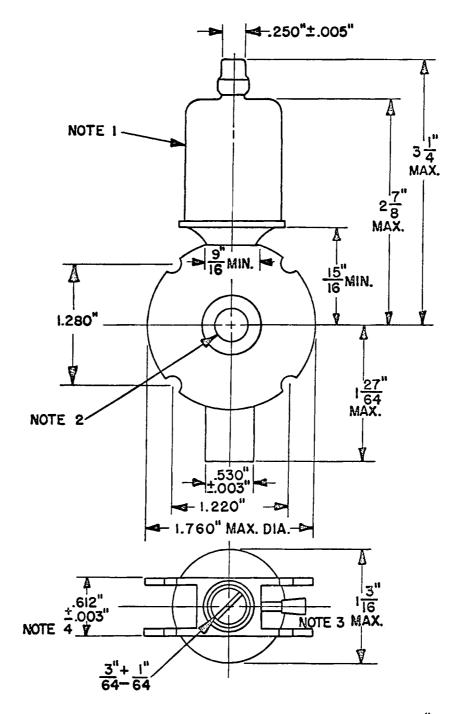
-40 to +100 C Ambient Temperature Range, non-operating 1/4 Pound Net Weight, approximate

MAXIMUM RATINGS

200 Microamperes Igniter Current

from RMA release # 470, Feb. 11, 1946





NOTES:

- I. MAXIMUM PROJECTION OF RESERVOIR LIES WITHIN A CYLINDER OF $1\frac{1}{4}$ DIA. WITH AXIS CO-LINEAR WITH TUBE AXIS.
- 2. NO PART OF IRIS ASSEMBLY SHALL EXTEND BEYOND THE BODY SURFACE.
- 3. EXHAUST TABULATION NOT TO EXTEND BEYOND PERIPHERY.
- 4. APPLIES FOR AREA BETWEEN PERIPHERY OF THIS SECTION OF TUBE AND CONCENTRIC CIRCLE OF $\frac{5}{16}$ " RADIUS.

N24537AZ

October 15, 1952

Outline GL-1B24-A

TUBE DEPARTMENT



Schenectady 5, N. Y.