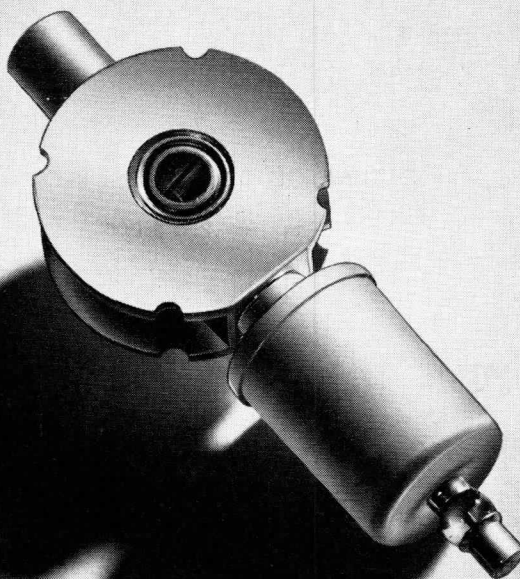




TR TUBE

INTEGRAL CAVITY TUNABLE

8490 TO 9600 MEGACYCLES

The GL-1B24-A is a gas switching tube of the integral cavity tunable type for use in simple duplexers in pulsed microwave circuits where a fixed electrical position for the short circuit in the tube is unnecessary. The tube operates to decouple the

receiver effectively from a common transmitting and receiving antenna during a transmission period. The tuning range is from less than 8490 to more than 9600 megacycles.

TECHNICAL INFORMATION

GENERAL

Electrical

Operational Band.....	8490 to 9600	Megacycles
Loaded Q, maximum.....	350	
Ignitor Starting Voltage, maximum.....	-1000	Volts
Ignitor Voltage Drop, Ignitor Current = 100 Microamperes		
Minimum.....	325	Volts
Maximum.....	450	Volts
Leakage Power.....	30	Milliwatts
peak power = 10 kw, pulse repetition rate = 1000 pps, pulse duration = 0.5 usec,		
ignitor current = 100 ua, frequency = 9375 mc, maximum		
Ignitor Interaction, Ignitor Current = 100 Microamperes, maximum.....	0.2	Decibel
Insertion Loss at 9375 Megacycles		
Maximum.....	1.50	Decibels
Minimum.....	0.85	Decibel

GENERAL  ELECTRIC


Electronic
TUBE

TECHNICAL INFORMATION (CONT'D)

Recovery Time at 10 Kilowatts Peak, 3 Decibels Down, maximum 4 Microseconds
Ignitor Ignition Time, maximum 5 Seconds

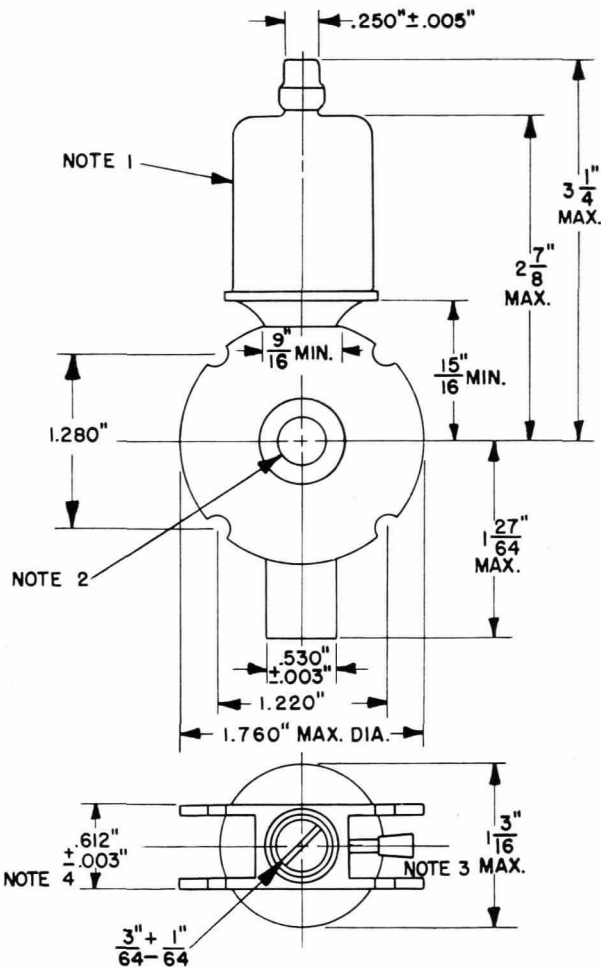
Mechanical

Mounting Position—Any
Ambient Temperature Range, non-operating -40 to +100 C
Net Weight, approximate 1/4 Pounds

MAXIMUM RATINGS

Ignitor Current 200 Microamperes

OUTLINE GL-1B24-A



- NOTES:
1. MAXIMUM PROJECTION OF RESERVOIR LIES WITHIN A CYLINDER OF 1 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 5/16" RADIUS.

N-24537AZ

10-15-52

TUBE DEPARTMENT

GENERAL  ELECTRIC

Schenectady 5, N. Y.