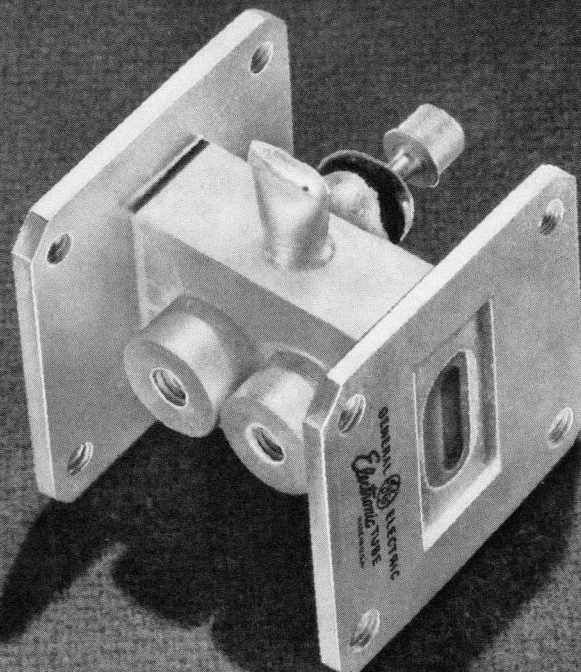




TR TUBE

DESCRIPTION

The GL-1B63-A is a gas switching tube for use in pulsed microwave circuits. It is designed to decouple effectively the receiver from a common transmitting and receiving antenna during a period of transmission. It is an integral-cavity type. The operational band is from 8490 to 9578 megacycles.

TECHNICAL INFORMATION

These data are for reference only. For design information refer to specifications.

GENERAL CHARACTERISTICS

Electrical

Operational band at voltage standing	8490 to 9578 megacycles
Wave ratio 1.9 maximum	—650 volts
Igniter starting voltage, maximum	
Igniter voltage drop at 100 microamperes	
Igniter current	190 volts
Minimum	450 volts
Maximum	
Spike leakage energy, peak power = 40 kw, pulse repetition rate = 1000 pps,	
pulse duration = 1 usec, igniter current = 100 ua, frequency = 9000 mc,	
maximum	0.1 watts per second per pulse

GENERAL  ELECTRIC


Electronic
TUBE

TECHNICAL INFORMATION (CONT'D)

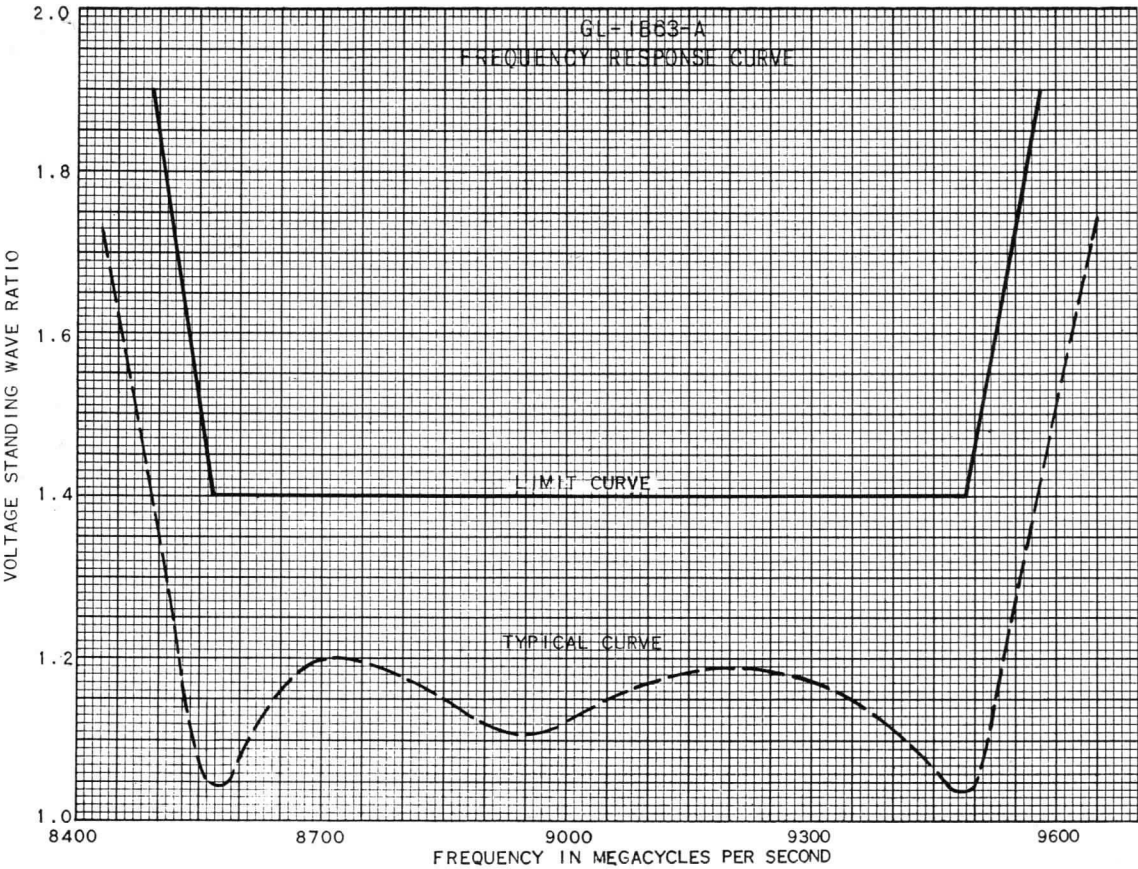
Flat Leakage Power, peak power = 40 kw, pulse repetition rate = 1000 pps, pulse duration = lusec, igniter current = 100 ua, frequency = 9000 mc, maximum	40	milliwatts
Insertion loss at 9000 megacycles and igniter current = 100 ua, maximum	0.9	decibels
Recovery time at 40 kilowatts peak, 3 decibels down, maximum	4	microseconds
High level loss, peak power = 4 kw, pulse repetition rate = 1000 pps, pulse width = lusec, frequency = 9000 mc, maximum	0.8	decibels
Transmitter peak power, minimum	4	kilowatts

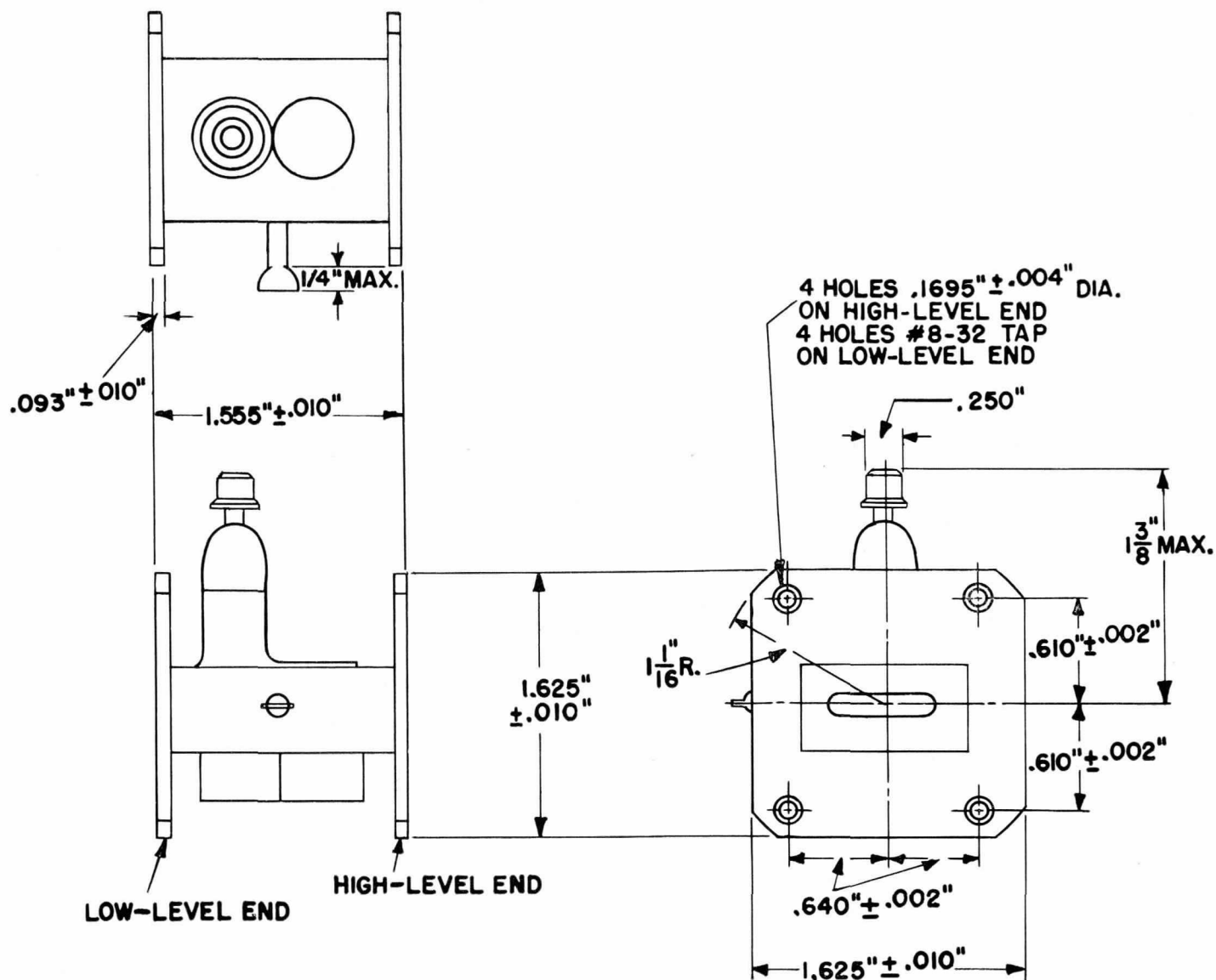
Mechanical

Mounting position—any	
Number of igniters—1	
Ambient temperature range, non-operating	-40 to +100 C
Net weight, approximate	1/4 pound

MAXIMUM RATINGS

Transmitter peak power	250 kilowatts
Igniter current	200 microamperes



OUTLINE
GL-1B63-A

Tube Divisions, Electronics Department

GENERAL  ELECTRIC

Schenectady, N. Y.