SYLVANIA

JETEC Registration Data

TYPE 1B55

TR SWITCHING TUBE

The Type 1B55 is a broad-band TR switching tube designed to decouple effectually the receiver from a common transmitting and receiving antenna during a transmitting period. It is an integral cavity type with an operational band of 3,360 to 3,740 megacycles.

ELECTRICAL DATA

Operational Band(1)	3360 to 3740 mc	Ignitor Open Circuit Supply Voltage(dc)	-500 to -700 volts
Transmitter Peak Power(min.)	10 kw	Leakage Power(max.)(3)	40 mw
Ignitor Voltage Drop:(2)		Insertion Loss(max.)(4)	0.7 db
Minimum	275 volts	Ignitor Interaction(max.)(5)	0.3 db
Maximum	425 volts	Recovery Time(max.)(6)	15 µsec
Spike Leak Energy(3)	0.3 erg		

MECHANICAL DATA

Mounting Position	any	Ambient Temperature Range (non operating)	-40 to +100 °C
Number of Ignitors	one		
Outline	Page 2		

Notes

NOTES

(1) With a Voltage Standing Wave Ratio of 1.9 maximum. The Voltage Standing Wave Ratio is 1.4 maximum in the frequency range of 3,390 to 3,710 megacycles.

(2) With ignitor current of 200 microamperes.

(3) With peak power of 50 ±10 kilowatts, pulse repetition rate of 1,000 pulses per second, frequency at 3,550 mc,

(3) (Continued) pulse duration of 1.0 ±0.15 and 0.5 ±0.15 microseconds, and ignitor current of 200 microamperes dc.

(4) At 3,550 megacycles and zero ignitor current.

(5) At 3,550 megacycles and 200 microamperes ignitor current.

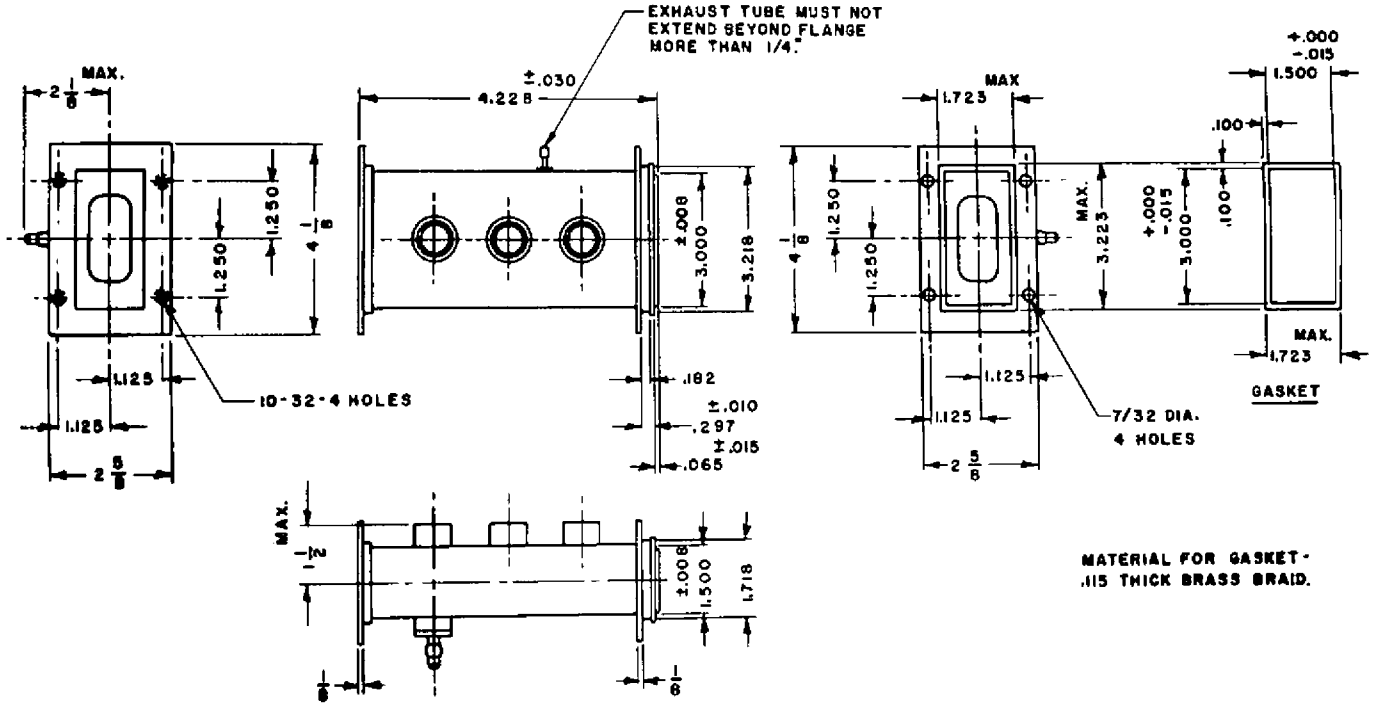
(6) At 750 kilowatts peak power and 3 db down.

(See Page 2 for Outline)

2-15-54 SYLVANIA ELECTRIC PRODUCTS INC. 1740 Broadway New York 19, New York 1B55-R-1

SYLVANIA

OUTLINE



ELECTRON TUBE
TYPE 1B55