

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	
Transmitter Peak Power(min.)....	10 kw	Voltage(dc)	-500 to -700 volts
Ignitor Voltage Drop:(2)		Leakage Power(max.)(3)	40 mw
Minimum	275 volts	Insertion Loss(max.)(4)	0.7 db
Maximum	425 volts	Ignitor Interaction(max.)(5)...	0.3 db
Spike Leak Energy(3)	0.3 erg	Recovery Time(max.)(6)	15 μ sec

MECHANICAL DATA

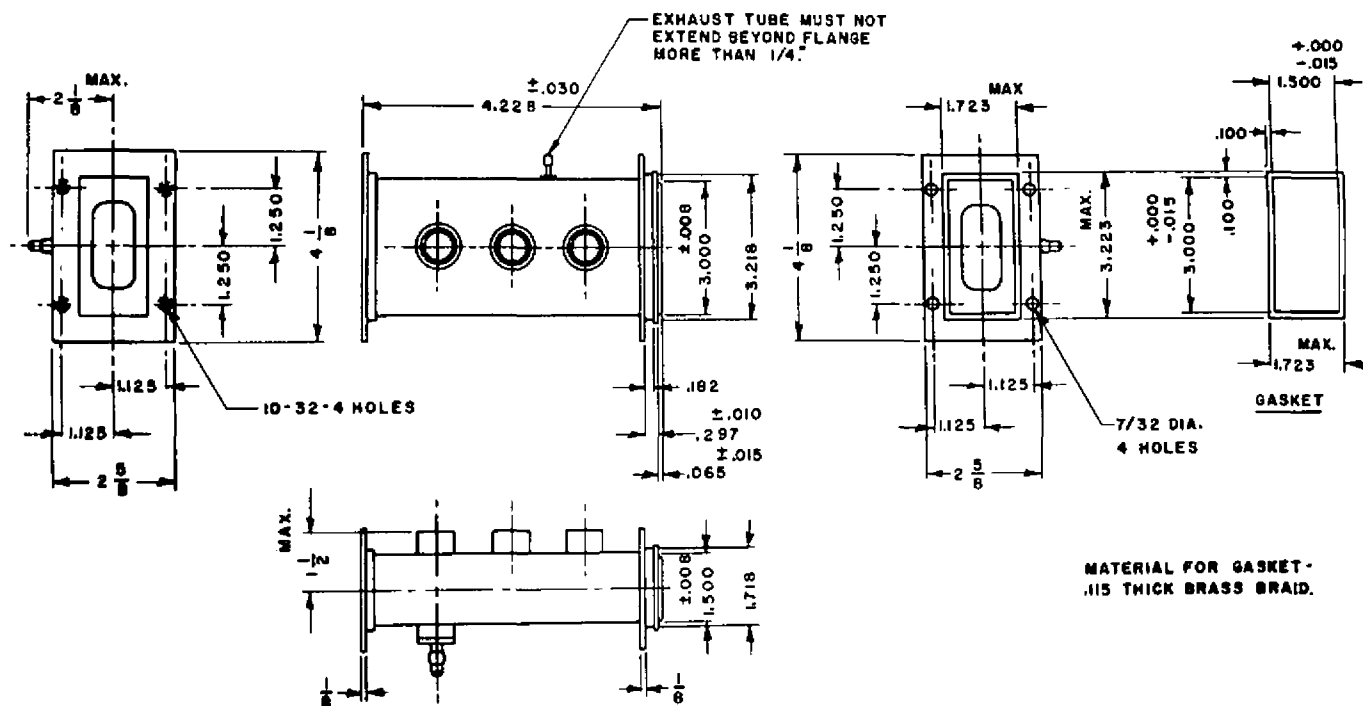
Mounting Position	any	Ambient Temperature Range	
Number of Ignitors	one	(non operating)	-40 to +100 °C
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Notes

NOTES

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| <p>(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.</p> <p>(2) With ignitor current of 200 microamperes.</p> <p>(3) With peak power of 50 $\pm$10 kilowatts, pulse repetition rate of 1,000 pulses per second, frequency at 3,550 mc,</p> | <p>(3) (Continued)
pulse duration of 1.0 $\pm$0.15 and 0.5 $\pm$0.15 microseconds, and ignitor current of 200 microamperes dc.</p> <p>(4) At 3,550 megacycles and zero ignitor current.</p> <p>(5) At 3,550 megacycles and 200 microamperes ignitor current.</p> <p>(6) At 750 kilowatts peak power and 3 db down.</p> |
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OUTLINE

ELECTRON TUBE
TYPE 1B55