



engineering data service

SYLVANIA

6624

TENTATIVE DATA

MECHANICAL DATA

Dimensions	Per Outline
Mounting position	Any
Ambient temperature range (non-operating)	-40 to +100°C

ELECTRICAL DATA

Center frequency	5400 mc
Operational band for VSWR of 1.4 max.	5370 to 5430 mc
Ignitor supply voltage (min.)	-700 volts
Ignitor voltage drop; $I_i = 100 \mu\text{A}$ dc	-200 to -400 volts
Spike leakage energy (max.) (1)	0.30 ergs
Flat leakage power (max.) (1)	50 mw
Insertion loss; $I_i = 0$	0.7 db
Ignitor interaction; $I_i = 100 \mu\text{A}$ dc	0.3 db
Recovery time at 30 KW peak 3 db down	10 μsec
Arc loss at 4 KW peak	0.8 db
Transmitter peak power (min.)	4 KW

Notes:

(1) $p_o = 30 \text{ KW}$; $p_{rr} = 1000 \text{ pps}$; $t_p = 1.0$ and $0.5 \mu\text{sec.}$; $I_i = 100 \mu\text{A}$ dc;
 $F = 5400 \text{ mc}$

APPLICATION DATA

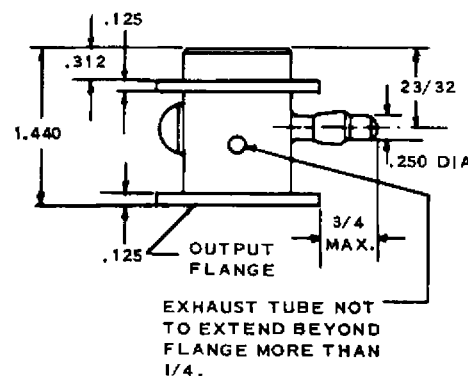
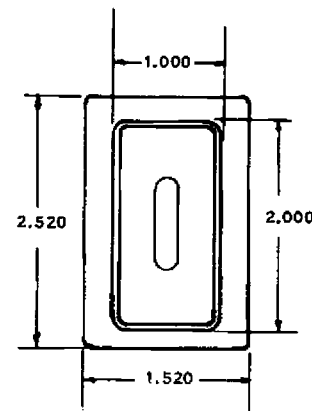
The 6624 TR tube was developed specifically for a commercial airborne radar application. It is recommended for any branched duplexer design, commercial or military, if any of three factors - size, weight, cost, is the primary objective.

Size and weight are reduced approximately 50% from the 5925, while maintaining equivalent performance.

The method of mounting is unique, fast and simple. By incorporating a "slip-in" type of design, it becomes possible to obtain precise location of the TR by using only four mounting bolts between waveguide flanges.

QUICK REFERENCE DATA

The Sylvania Type 6624 is a fixed tuned integral cavity TR tube. Its operational band is from 5370 to 5430 mc. It is designed to be contact mounted at the input end of the tube.



from JETEC release #1457, May 2, 1955