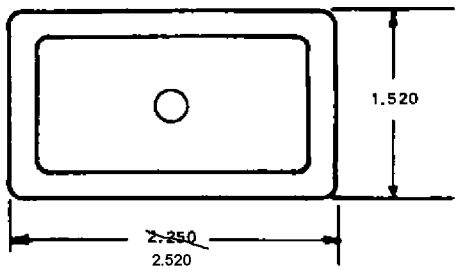
QUICK REFERENCE DATA

The Sylvania Type 6591 is a broad-band ATR tube designed for use at a center frequency of 5400 mc. It is contact mounted at the window end of the tube.

MECHANICAL DATA

Dimensions	Per Outline
Mounting Position	Any (one gasket is supplied with each tube)
Ambient Temperature Range (non-operating)	-40 to +100°C



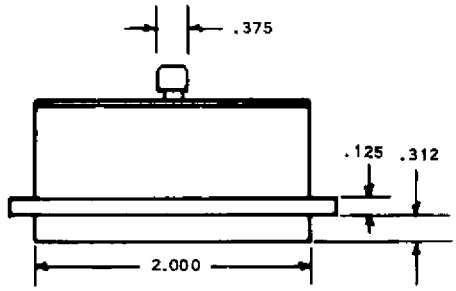
ELECTRICAL DATA

Ratings

Transmitter Peak Power (min.)	4 KW

General Data

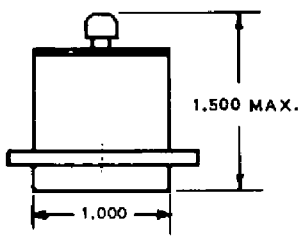
Center Frequency	5400 mc
Low Level Characteristics at Center Frequency	
Equivalent Conductance (max.)	0.1
Tuning Susceptance	-.06 to +.06
High Level Characteristics at Center Frequency	
Arc Loss (max.) (1)	0.8 db
Recovery Time (max.) (2)	25 μsec
Firing Time (max.)	10 sec.



Notes:

(1) pi= 10 KW; tp= 1.0 μsec; prr= 1000 pps; F= 5400 mc

(2) The distance between the position of the minimum in the unfired condition and the position of the minimum after the specified time interval after the magnetron pulse shall be less than .05 λg. The probing signal shall be 5400 mc.



APPLICATION DATA

The 6591 is a contact-mounted, C-band, ATR tube developed for application in branched duplexers in conjunction with the 6624 TR tube. Other than center frequency electrical performance is equivalent to type 6081. The contact-mount, however, decreases overall size and weight. In addition, better system performance is assured by elimination of the conventional ATR "castle", and the ever-present possibility of arcing in this type of mount

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