



## ADVANCE DATA

## MECHANICAL DATA

|                                           |               |
|-------------------------------------------|---------------|
| Dimensions                                | Per Outline   |
| Mounting Position                         | Any           |
| Number of Ignitors                        | One           |
| Ambient Temperature Range (non-operating) | -40 to +100°C |

## ELECTRICAL DATA

## RATINGS

|                                     |                   |
|-------------------------------------|-------------------|
| Ignitor Open Circuit Supply Voltage | -750 to -1000 Vdc |
| Ignitor Current (max)               | 200 $\mu$ Adc     |

## GENERAL DATA

|                                                                   |                     |
|-------------------------------------------------------------------|---------------------|
| Tuning Range                                                      | 33,814 to 35,906 mc |
| Transmitter Peak Power                                            | 100 kw              |
| Flat Leakage Power (max) (1)                                      | 30 mw               |
| Insertion Loss at 34,860 mc (max)                                 | 2.5 db              |
| Ignitor Interaction at Ignitor Current of<br>100 $\mu$ Adc (max)  | 0.2 db              |
| Ignitor Voltage Drop at Ignitor Current of<br>100 $\mu$ Adc (max) | 200 to 350 Vdc      |
| Recovery Time (max) (2)                                           | 4 $\mu$ sec         |

## NOTES

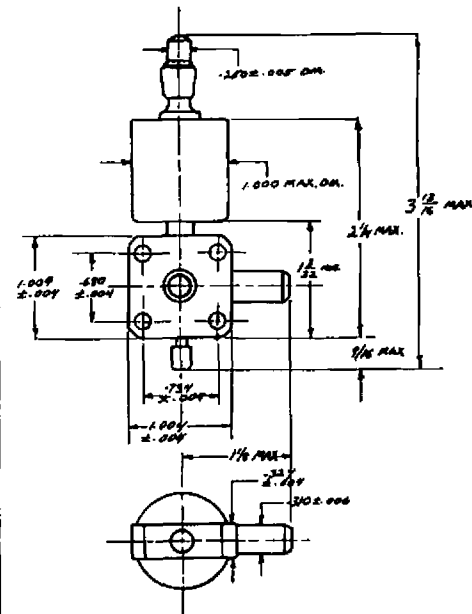
- (1)  $F = 34,860$  mc;  $p_o = 8$  KW;  $I_i = 100$   $\mu$ Adc;  $t_p = .25$   $\mu$ sec at 2000 pps or  $t_p = .5$   $\mu$ sec at 1000 pps.
- (2)  $F = 34,860$  mc;  $p_o = 8$  KW;  $I_i = 100$   $\mu$ Adc;  $t_p = .25$   $\mu$ sec at 2000 pps or  $t_p = .5$   $\mu$ sec at 1000 pps. The loss of signal in the tube at the specified time after the pulse shall not be more than 3 db in excess of the loss at 100  $\mu$ sec after the pulse.

## APPLICATION DATA

The Sylvania Types 6545 and 6546 are normally used in a branched type duplexer, in conjunction with the Mag 400 magnetron in pressurized systems. These components are recommended for application in systems requiring high definition combined with maximum range and bearing accuracy.

## QUICK REFERENCE DATA

The Sylvania Type 6545 is an integral cavity tunable transmit-receive tube designed to operate at 100 KW peak power and its tuning range is from 33,814 to 35,906 megacycles.



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