

leering data service

6545

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 ALAde

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

100 ALAdc (max)

0.2 db

Ignitor Voltage Drop at Ignitor Current of

100 MAdc (max)

200 to 350 Vdc

Recovery Time (max) (2)

4 usec

NOTES

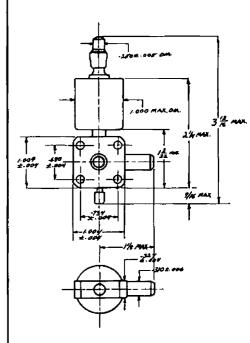
- (1) F = 34,860 mc; $P_0 = 8 \text{ KW}$; Ii = 100 atAdc; tp = .25 atsec at 2000 pps or tp = .5 Asec at 1000 pps.
- (2) F = 34,860 mc; $P_0 = 8 \text{ KW}$; Ii = 100 AAdc; tp = .25 Ausec at 2000 ppsor tp = .5 usec at 1000 pps. The loss of signal in the tube at the specified time after the pulse shall not be more than 3 db in excess of the loss at 100 ausec 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.



from JETEC release #1377, Nov. 29, 1954

