



QUICK REFERENCE DATA

The Sylvania Type 5927 is an integral cavity broadband transmit-receive tube designed to effectively decouple the receiver from a common transmitting and receiving antenna during a period of transmission. Its operational band is 3100 to 3500 megacycles.

MECHANICAL DATA

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

ELECTRICAL DATA

RATINGS

| | |
|--|----------|
| Transmitter Peak Power (min.) | 100 kw |
| Ignitor Open Circuit Supply Voltage (min.) | -500 Vdc |
| Ignitor Open Circuit Supply Voltage (max.) | -700 Vdc |

GENERAL DATA

| | |
|---|------------------|
| Operational Band for Voltage | |
| Standing Wave Ratio of 1.6 max. | 3100 to 3500 mc |
| Spike Leakage Energy (max.) | 0.3 ergs |
| Flat Leakage Power (max.) (1) | 50 mw |
| Insertion Loss at 3300 mc and zero Ignitor Current (max.) | 0.7 db |
| Ignitor Interaction at 3300 mc and 200 uAdc Ignitor Current (max.) | 0.3 db |
| Ignitor Voltage Drop at 200 uAdc Ignitor Current | -275 to -425 Vdc |
| Recovery Time (max.) (2) | 15 usec |

NOTES

- (1) Tested at 200 KW RF power; pulse length of 1.0 ± .15 usec and 0.5 ± .15 usec; 1000 pps; at 3300 mc; with ignitor current of 200 uAdc.

