DESCRIPTION

The Sylvania Type 5865 is a band-pass transmit-receive tube. It will protect a crystal detector from pulsed power greater than 4 kilowatts peak from 5395 to 5905 megacycles with a maximum voltage standing wave ratio of 1.9 and from 5450 to 5825 mc at a maximum VSWR of 1.4. In duplexing systems Sylvania Type 6081 may be used as the companion ATR.

TRANSMITTER PEAK POWER .... 4 kw min.

IGNITOR CHARACTERISTICS

Ignitor Voltage .......... -700 volts
Ignitor Current ........ 100 μA
Ignitor Voltage Drop .. 200 to 400 volts

HIGH POWER LEVEL FIRED CHARACTERISTICS*

Leakage Power Peak (300 kw) .... 70 mw max.
Spike Leakage Energy .... 0.25 erg max.
Recovery Time (40 kw) .... 4 μsec @ 3 db max.
Recovery Time (300 kw) .... 10 μsec @ 3 db max.

*prr = 1000; Du = 0.001; f = 5650 mc

LOW POWER LEVEL UNFIRED CHARACTERISTICS

Insertion Loss .... 0.8 db max.
Ignitor Interaction .... 0.2 db max.
Arc Loss (4 kw) .... 0.8 db max.

TEMPERATURE AND MECHANICAL CHARACTERISTICS

Ambient Temperature Range (non-operating): -40º to +100ºC
Mounting: Between rf choke flanges (UG-148B, U or equiv.)
in 2” x 1” OD waveguide.

SYLVANIA ELECTRIC PRODUCTS INC. ELECTRONICS DIVISION
1740 Broadway, New York 19, New York
**SEE NOTE 1**

**#2(2.210) DRILL-8 HOLES EQUALLY SPACED AS SHOWN ON 3.250 B.C.**

**NOTE**

1. EXHAUST TUBE NOT TO EXTEND BEYOND EDGE OF FLANGE.

<table>
<thead>
<tr>
<th>REF.</th>
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<tr>
<td>A</td>
<td>.250 ± .010</td>
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<tr>
<td>B</td>
<td>.250 ± .010</td>
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<tr>
<td>C</td>
<td>2.110 ± .010</td>
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<tr>
<td>D</td>
<td>3 3/8 ± 1/64</td>
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<td>E</td>
<td>1 13/32 max.</td>
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<td>F</td>
<td>.250</td>
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