JETEC TYPE DESIGNATION REGISTRATION FORM

TR TUBE

Manufacturer's Designation: BL 25
JETEC Designation: 6322
Manufacturer: Bomac Laboratories, Inc.
Beverly, Massachusetts

April 24, 1957

GENERAL CHARACTERISTICS

The 6322 is a tunable narrow band TR tube designed to effectively decouple the receiver from a common transmitting and receiving antenna during a period of transmission. It is a separate cavity type. Its tuning range is from 1215 to 1355 megacycles.

ELECTRICAL DATA-TYPICAL VALUE

Loaded Q
Tuning Range
Ignitor Ignition Time (max.)
Ignitor Voltage Drop at $\vec{I}=100\mu A_{dc}$
Spike Leakage Energy (max.)

\[ F=1285 \text{ Mc}; \ \vec{P}=4-6 \text{ kw}; \ \tau_{p1}=4\mu \text{sec}; \]
\[ \tau_{p2}=1\mu \text{sec}; \ \tau_{rr}=250 \text{pps}; \ \vec{I}=100\mu A_{dc} \]

Flat Leakage Power (max.)

(See Spike Leakage for test conditions)

Insertion Loss (max.) at 1285 Mc; $\vec{I}=0$
Ignitor Interaction (max.) at 1285 Mc; $\vec{I}=100\mu A_{dc}$
Recovery Time (max.) at 450 kw peak, 3 db down


90 mw

0.8 db
0.1 db
25 $\mu$sec

MECHANICAL DATA-GENERAL

Mounting Position
Weight, approximately

Any
1.50 ozs

ABSOLUTE MAXIMUM RATINGS

Transmitter Peak Power
Transmitter Average Power
Ignitor Current

450 kw
450 W
200 $\mu A_{dc}$

OUTLINE DRAWING

As per attached drawing dated 8-17-54

from JETEC release #1949, June 17, 1957
NOTES:
1. CONTACT DISKS SHALL BE CONCENTRIC WITH RESPECT TO EACH OTHER WITHIN 3/16.
2. CONTACT DISKS SHALL BE GOLD PLATED IOMS1 OR SILVER PLATED ISMS1.
3. SEAL OFF RAB SHALL NOT EXTEND BEYOND INDICATED LINE.
4. APPLIES WHEN TUNING SCREW IS AT ITS EXTREME OUTER POSITION.

<table>
<thead>
<tr>
<th>REF</th>
<th>DIMENSIONS</th>
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<tbody>
<tr>
<td>A*</td>
<td>.0638 MAX</td>
</tr>
<tr>
<td>B**</td>
<td>.04 ± .001</td>
</tr>
<tr>
<td>C*</td>
<td>.070 MIN.</td>
</tr>
<tr>
<td>D**</td>
<td>.000 APPROX.</td>
</tr>
<tr>
<td>E*</td>
<td>.070 ± .001</td>
</tr>
<tr>
<td>F*</td>
<td>.125 MIN.</td>
</tr>
<tr>
<td>G*</td>
<td>.083 MIN.</td>
</tr>
<tr>
<td>H*</td>
<td>1/8 + 1/32 - 0</td>
</tr>
<tr>
<td>J**</td>
<td>.489</td>
</tr>
<tr>
<td>K**</td>
<td>3/32 APPROX.</td>
</tr>
<tr>
<td>L**</td>
<td>.250 ± .002</td>
</tr>
<tr>
<td>M*</td>
<td>1.062 ± .006</td>
</tr>
<tr>
<td>N*</td>
<td>1.000 ± .005</td>
</tr>
<tr>
<td>P**</td>
<td>.500</td>
</tr>
<tr>
<td>Q**</td>
<td>.436</td>
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<tr>
<td>R**</td>
<td>.340 ± .012</td>
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<tr>
<td>S**</td>
<td>.78 MAX.</td>
</tr>
<tr>
<td>T**</td>
<td>.43/44</td>
</tr>
<tr>
<td>U**</td>
<td>.14 ± .044</td>
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<tr>
<td>V*</td>
<td>.040 MIN.</td>
</tr>
<tr>
<td>W*</td>
<td>7/16</td>
</tr>
<tr>
<td>X*</td>
<td>.070 MIN.</td>
</tr>
<tr>
<td>Y*</td>
<td>1 3/82 MAX.</td>
</tr>
<tr>
<td>Z*</td>
<td>1 11/16 ± 1/6</td>
</tr>
<tr>
<td>AA*</td>
<td>1/8 MAX (SEE NOTE 4)</td>
</tr>
<tr>
<td>AB**</td>
<td>9/16</td>
</tr>
</tbody>
</table>