JETEC TYPE DESIGNATION REGISTRATION FORM

ATR TUBES

Manufacturer's Designation: BL-94
JETEC Designation: 6631
Manufacturer: Bomac Laboratories, Inc.
Beverly, Massachusetts

March 11, 1957

GENERAL CHARACTERISTICS

The 6631 is a broad-band ATR tube with a keep-alive. The tube is designed to effectively decouple the transmitter from a common transmitting and receiving antenna during a non-transmitting period. It is designed to operate over a frequency range 8500 to 9000 megacycles.

ELECTRICAL DATA - TYPICAL VALUES

Center Frequency 8750 Mc
Loaded Q (max.) 18
Transmitter Peak Power (max.) 250 kw
Transmitter Peak Power (min.) 4 kw
Equivalent Conductance (max.) 0.1
Tuning Susceptance (max.) ±0.06
Arc Power Loss (max.) |F=9025 Mc; po=4kw; tp=0.55 μsec; prr=1000 pps
| Li =100 μAdc
Ignitor Ignition Time (max.) 5 sec.
Ignitor Voltage Drop; Li=100 μAdc 150-350 volts

MECHANICAL DATA-GENERAL

Mounting Position Any
Weight, approximately 2 oz.

ABSOLUTE MAXIMUM RATING

Transmitter Peak Power 250 kw
Transmitter Average Power 250 W
Ignitor Current 200 μAdc

OUTLINE DRAWING

As per attached outline dated 6-22-56

from JETEC release #1897, April 15, 1957
** The tubulation shall fall within a circle of 3/8 Dia. Max. located from the g of the flange.

Position of Gasket when mounted

Notes:

1. Silver plate 100 MSI or Equivalent.
2. Center lines of Window shall coincide with corresponding center lines of box within .015. This measurement shall be made in the plane of the window.
3. 2 Gaskets per 191 Jan supplied with tube but not mounted.
4. Dim B to measure a nom. 1/8 from Ref. plane A.
5. Dim G to measure a nom. 1/8 from window plane
6. Slot dimensions apply only on contact face of flange.

<table>
<thead>
<tr>
<th>Ref.</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>A*</td>
<td>1.000 ±.010</td>
</tr>
<tr>
<td>B</td>
<td>.142 Min.</td>
</tr>
<tr>
<td>C</td>
<td>1.299 ±.003</td>
</tr>
<tr>
<td>D</td>
<td>.107 ±.004</td>
</tr>
<tr>
<td>E</td>
<td>.035</td>
</tr>
<tr>
<td>F*</td>
<td>.125 ±.008</td>
</tr>
<tr>
<td>G</td>
<td>.138 Min.</td>
</tr>
<tr>
<td>H*</td>
<td>.500 ±.010</td>
</tr>
<tr>
<td>G**</td>
<td>.020R. Max.</td>
</tr>
<tr>
<td>K*</td>
<td>2 3/8 Max.</td>
</tr>
<tr>
<td>L</td>
<td>1.300 ±.003</td>
</tr>
<tr>
<td>M</td>
<td>.800 ±.003</td>
</tr>
<tr>
<td>N*</td>
<td>1/4 Max.</td>
</tr>
<tr>
<td>P</td>
<td>.040</td>
</tr>
<tr>
<td>Q*</td>
<td>.9/32</td>
</tr>
<tr>
<td>R*</td>
<td>1 13/16 Max.</td>
</tr>
<tr>
<td>S**</td>
<td>1/4 Dia. Nom.</td>
</tr>
</tbody>
</table>

** SPECIFICATION SHEET **

OUTLINE

6631/BL-94

BOMAC LABORATORIES INC.
SALEM ROAD
BEVERLY, MASSACHUSETTS

6-22-56 RR