# JETEC TYPE DESIGNATION REGISTRATION FORM

## TR TUBE

| | | |
|---|---|---|
| Manufacturer's Designation: | BL-37A | March 1, 1957 |
| JETEC Designation: | 6633 | |
| Manufacturer: | Bomac Laboratories, Inc.<br>Beverly, Massachusetts | |

## GENERAL CHARACTERISTICS.

The 6633 is a broad band TR tube designed to effectively decouple the receiver from a common transmitting and receiving antenna during a period of transmission. It is an integral cavity type. Its operational band is from 1220 to 1365 Megacycles.

## ELECTRICAL DATA - TYPICAL VALUES.

| | |
|---|---|
| Operational Band<br>VSWR 1.4 maximum | 1220 to 1365 Mc/s |
| Ignitor Ignition Time (max.) | 5 sec. |
| Ignitor Voltage Drop at Ii=100μAdc | 200-450 volts |
| Spike Leakage Energy (max.)<br>F= 1292Mc; po=2000kw<br>tp1=4.0μs; tp2=1.0μs<br>prr=250pps; Ii=100μAdc. | 0.40 ergs |
| Flat Leakage Power (max.)<br>(See Spike Leakage for test conditions) | 75 mw |
| Insertion Loss (max.) at 1292 Mc and Ii=0 | 0.7 db |
| Ignitor Interaction (Max.) at 1292 Mc and Ii=100μAdc | 0.3 db |
| Recovery Time (max.) at 2000 kw peak 3 db down | 45μs |

## MECHANICAL DATA - GENERAL.

| | |
|---|---|
| Mounting Position | Any |
| Pressurization (max.) | 25 psia |
| Weight, approximately | 9.75 lbs. |

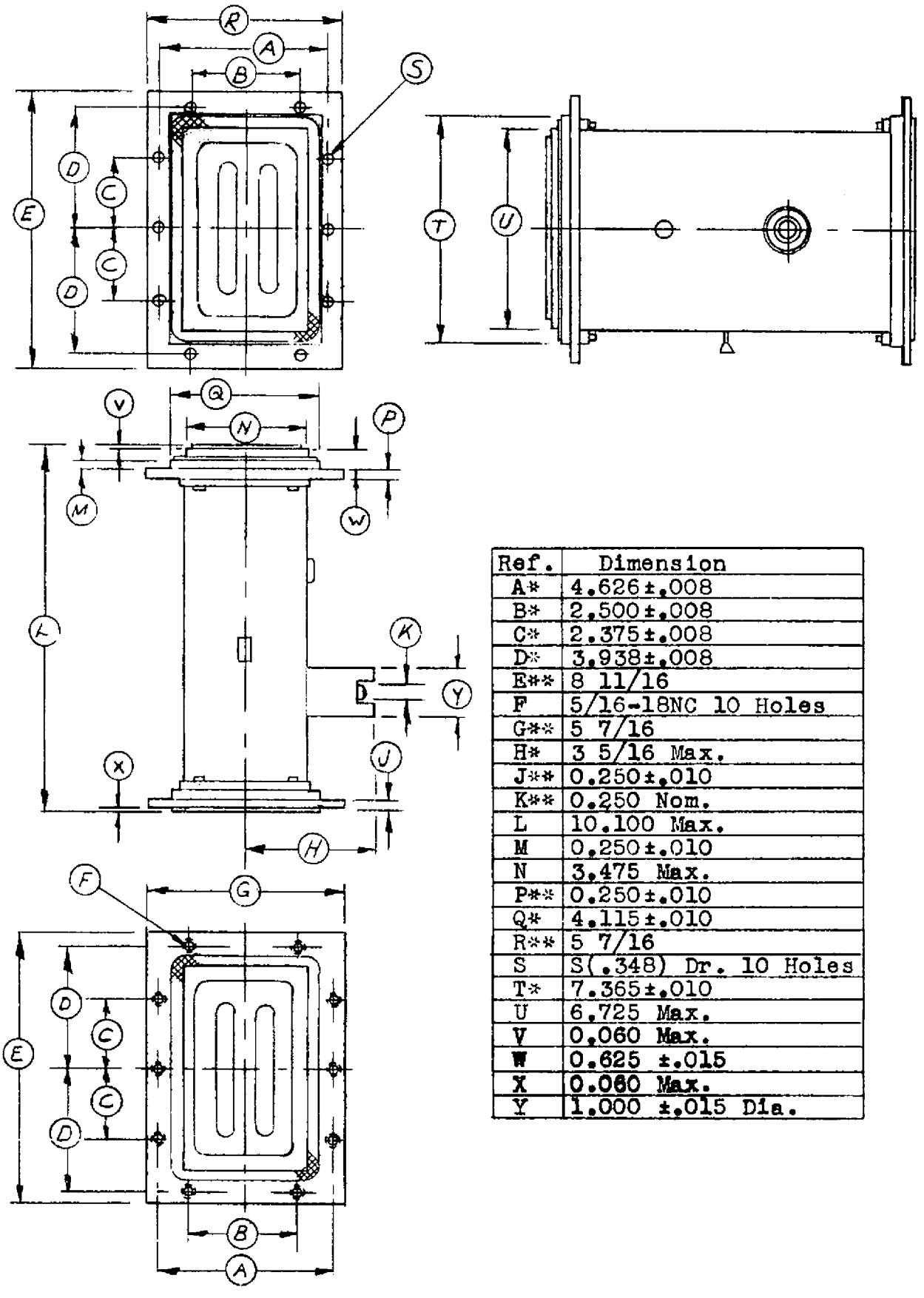
## ABSOLUTE MAXIMUM RATINGS.

| | |
|---|---|
| Transmitter Peak Power | 2000 kw |
| Transmitter Average Power | 2000 W |
| Ignitor Current | 200 μAdc |

## OUTLINE DRAWING.

As per attached drawing dated 1-15-57

from JETEC release #1897, April 15, 1957




| Ref. | Dimension |
|---|---|
| A* | 4.626±.008 |
| B* | 2.500±.008 |
| C* | 2.375±.008 |
| D* | 3.938±.008 |
| E** | 8 11/16 |
| F | 5/16-18NC 10 Holes |
| G** | 5 7/16 |
| H* | 3 5/16 Max. |
| J** | 0.250±.010 |
| K** | 0.250 Nom. |
| L | 10.100 Max. |
| M | 0.250±.010 |
| N | 3.475 Max. |
| P** | 0.250±.010 |
| Q* | 4.115±.010 |
| R** | 5 7/16 |
| S | S(.348) Dr. 10 Holes |
| T* | 7.365±.010 |
| U | 6.725 Max. |
| V | 0.060 Max. |
| W | 0.625 ±.015 |
| X | 0.060 Max. |
| Y | 1.000 ±.015 Dia. |

# SPECIFICATION SHEET

Outline

BL-37, 6633/BL- 37A

BOMAC LABORATORIES INC.
SALEM ROAD
BEVERLY, MASSACHUSETTS

1-15-57 clr

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