

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	175 - 250
Tuning Range	1215 to 1355 Mc/sec
Ignitor Ignition Time (max.)	5 sec
Ignitor Voltage Drop at $I_i=100\mu\text{Adc}$	300-450 volts
Spike Leakage Energy (max.) F=1285 Mc; $p_o=4-6$ kw; $t_{p1}=4\mu\text{sec}$ ; $t_{p2}=1\mu\text{s}$ ; $p_{rr}=250\text{pps}$ ; $I_i=100\mu\text{Adc}$	0.35 ergs.
Flat Leakage Power (max.) (See Spike Leakage for test conditions)	90 mw
Insertion Loss (max.) at 1285 Mc; $I_i=0$	0.8 db
Ignitor Interaction (max.) at 1285 Mc; $I_i=100\mu\text{Adc}$	0.1 db
Recovery Time (max.) at 450 kw peak, 3 db down	25 $\mu\text{sec}$

MECHANICAL DATA-GENERAL

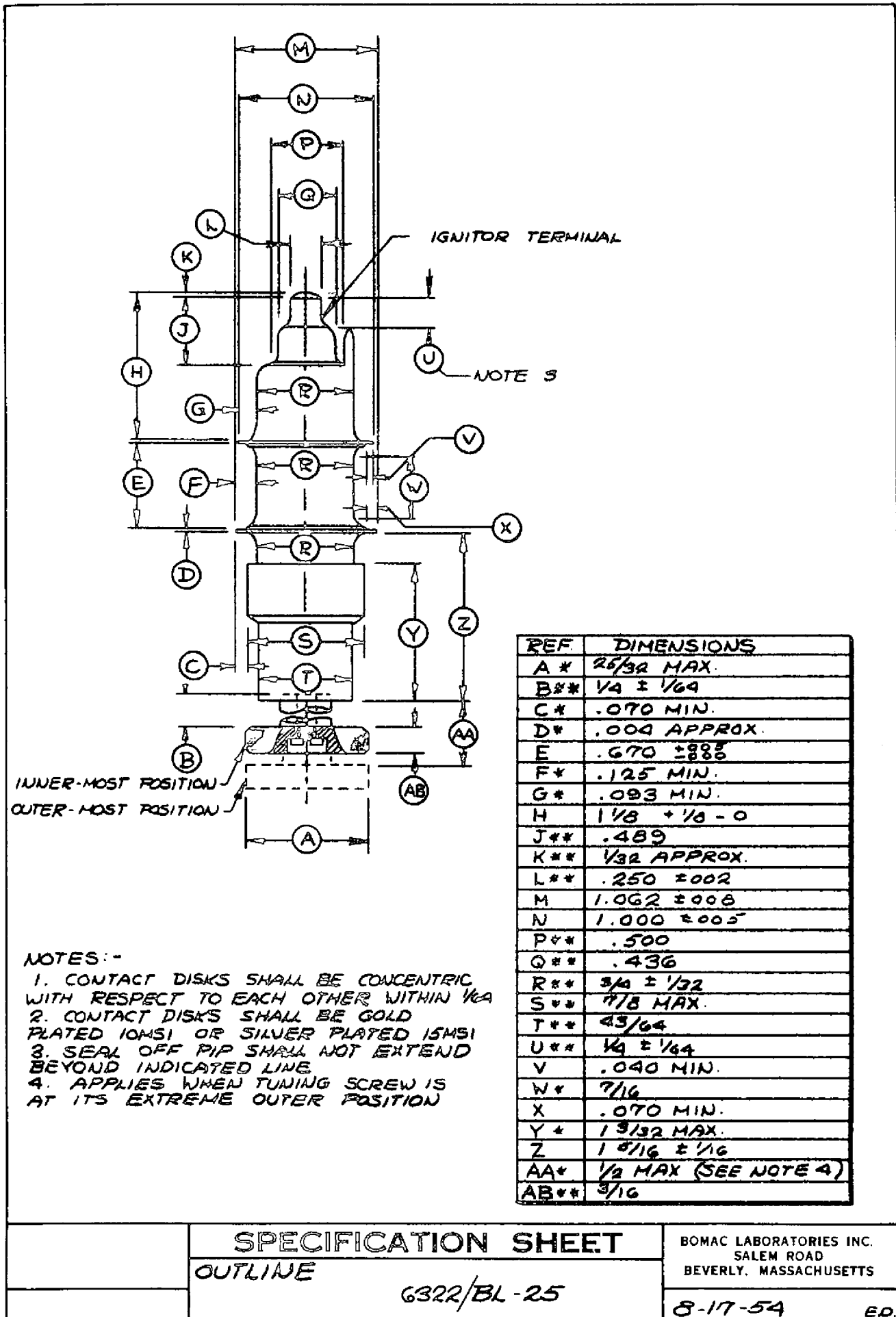
Mounting Position	Any
Weight, approximately	1.5ozs

ABSOLUTE MAXIMUM RATINGS

Transmitter Peak Power	450 kw
Transmitter Average Power	450 W
Ignitor Current	200 $\mu\text{Adc}$

OUTLINE DRAWING

As per attached drawing dated 8-17-54



INNER-MOST POSITION  
OUTER-MOST POSITION

- NOTES:-
1. CONTACT DISKS SHALL BE CONCENTRIC WITH RESPECT TO EACH OTHER WITHIN  $1/64$
  2. CONTACT DISKS SHALL BE GOLD PLATED 10MSI OR SILVER PLATED 15MSI
  3. SEAL OFF PIP SHALL NOT EXTEND BEYOND INDICATED LINE
  4. APPLIES WHEN TUNING SCREW IS AT ITS EXTREME OUTER POSITION

REF.	DIMENSIONS
A*	$25/32$ MAX.
B**	$1/4 \pm 1/64$
C*	.070 MIN.
D*	.004 APPROX.
E	$.670 \pm .005$
F*	.125 MIN.
G*	.093 MIN.
H	$1/8 + 1/8 - 0$
J**	.489
K**	$1/32$ APPROX.
L**	$.250 \pm .002$
M	$1.062 \pm .008$
N	$1.000 \pm .005$
P**	.500
Q**	.436
R**	$3/4 \pm 1/32$
S**	$7/8$ MAX.
T**	$43/64$
U**	$1/4 \pm 1/64$
V	.040 MIN.
W*	$7/16$
X	.070 MIN.
Y*	$1 3/32$ MAX.
Z	$1 5/16 \pm 1/16$
AA*	$1/2$ MAX (SEE NOTE 4)
AB**	$3/16$

SPECIFICATION SHEET

OUTLINE

6322/BL-25

BOMAC LABORATORIES INC.  
SALEM ROAD  
BEVERLY, MASSACHUSETTS

8-17-54

ED.