

JETEC TYPE DESIGNATION REGISTRATION
FORM

TR TUBES

March 11, 1957

Manufacturer's Designation: BL-31
JETEC Designation: 6637
Manufacturer: Bomac Laboratories, Inc.
Beverly, Massachusetts

GENERAL CHARACTERISTICS

The 6637 is a narrow band tunable 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 2600 to 3000 megacycles.

ELECTRICAL DATA - TYPICAL VALUES

Tuning Range	2600 to 3000 Mc/sec.
Ignitor Ignition Time (max.)	5 sec.
Ignitor Voltage Drop at $I_i = 100 \mu\text{Adc}$	415 to 525 volts
Peak Leakage Power (max.)	25 mw
F 3300Mc; $p_o = 5\text{kw}$; $t_p = 0.5 \mu\text{s}$;	
prf = 1000 pps; $I_i = 100 \mu\text{Adc}$	
Recovery Time (max.) at 50kw peak 3db down	5 μsec

MECHANICAL DATA

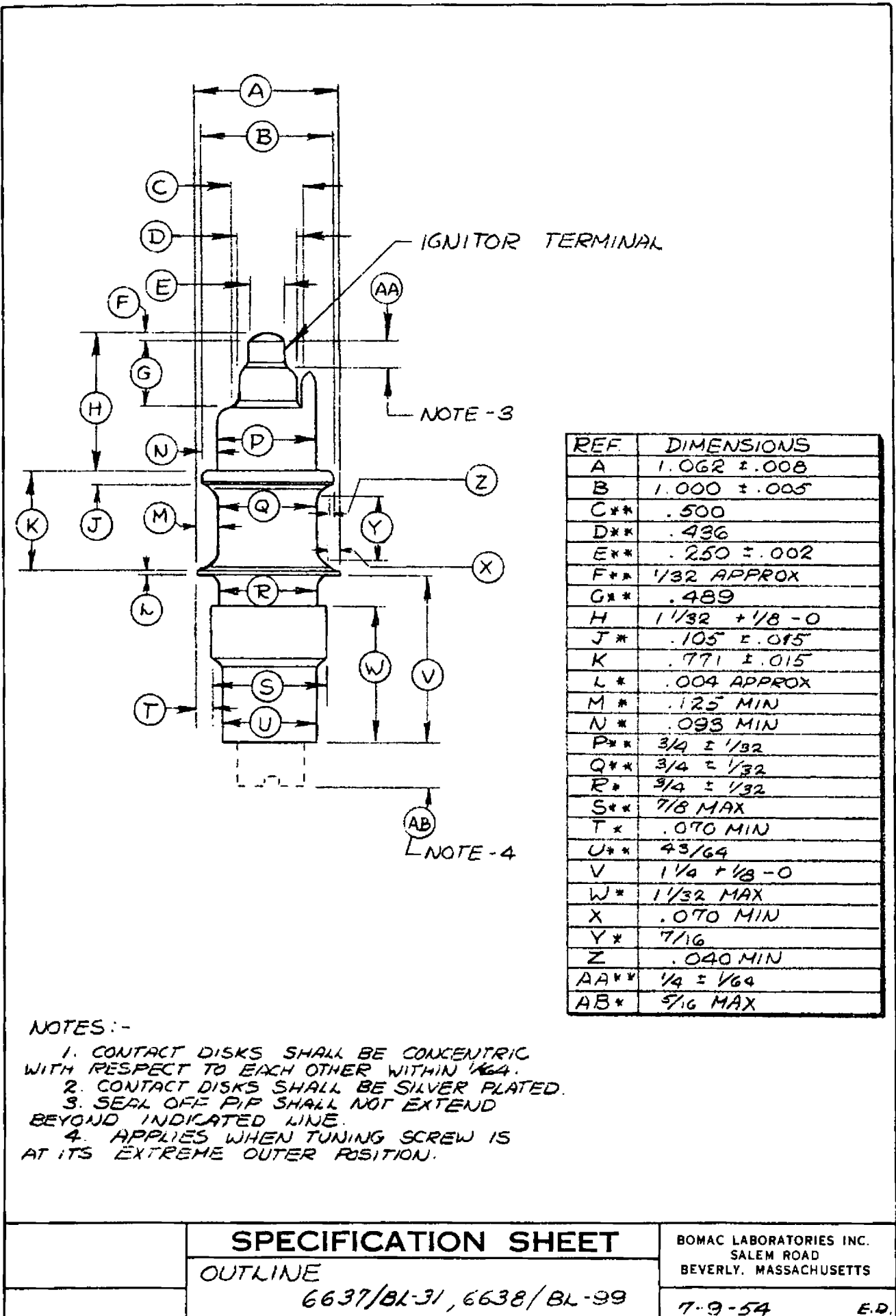
Mounting Position	Any
Weight, approximately	1.20 ozs.

ABSOLUTE MAXIMUM RATINGS

Transmitter Peak Power	100kw
Transmitter Average Power	50W
Ignitor Current	200 μAdc

OUTLINE DRAWING

As per attached drawing dated 7-9-54.



REF	DIMENSIONS
A	1.062 ± .008
B	1.000 ± .005
C**	.500
D**	.436
E**	.250 ± .002
F**	1/32 APPROX
G**	.489
H	1 1/32 + 1/8 - 0
J*	.105 ± .015
K	.771 ± .015
L*	.004 APPROX
M*	.125 MIN
N*	.093 MIN
P**	3/4 ± 1/32
Q**	3/4 ± 1/32
R*	3/4 ± 1/32
S**	7/8 MAX
T*	.070 MIN
U**	43/64
V	1 1/4 + 1/8 - 0
W*	1/32 MAX
X	.070 MIN
Y*	7/16
Z	.040 MIN
AA**	1/4 ± 1/64
AB*	5/16 MAX

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

SPECIFICATION SHEET

OUTLINE

6637/BL-31, 6638/BL-99

BOMAC LABORATORIES INC.
SALEM ROAD
BEVERLY, MASSACHUSETTS

7-9-54

E.D.