

JETEC TYPE DESIGNATION REGISTRATION FORM

TR TUBES

Manufacturer's Designation: BL-87
JETEC Designation: 6636
Manufacturer: Bomac Laboratories, Inc.
Beverly, Massachusetts

March 8, 1957

GENERAL CHARACTERISTICS

The 6636 is a dual broad-band gas switching tube designed to operate with suitable short-slot hybrid junctions to provide a balanced duplexer using RG48/U size waveguide. It is an integral cavity type with an operational band from 2700 to 2900 megacycles.

ELECTRICAL DATA TYPICAL VALUES

Operational Band	
VSWR 1.2 maximum	2700 to 2900 Mc/sec.
Ignitor Ignition Time (max.)	5 sec.
Ignitor Voltage Drop at $I_i=200\mu\text{Adc}$ (measured separately on each electrode)	200-400 volts
Spike Leakage Energy (max.)	0.1 ergs
F= 2800Mc; $p_o=200\text{kw}$; $t_{p1}=1.0\mu\text{s}$ $t_{p2}=0.5\mu\text{s}$; $p_{rr}=1000\text{pps}$ $I_i=200\mu\text{Adc}$ on each electrode	
Flat Leakage Power (max.) (see Spike Leakage for test conditions)	20 mw
Duplexer Loss (max.) from 2700 to 2900Mc and $I_i=200\mu\text{Adc}$ on each electrode	0.9 db
Isolation (min.) from 2700 to 2900Mc.	20 db
Recovery Time (max.) at 750 kw peak 3db down	15 μsec .
High Level VSWR (max.) F= 2800Mc; $p_o=50\text{kw}$; $t_{p1}=1.0\mu\text{s}$; $p_{rr}=1000\text{pps}$; $I_i=200\mu\text{Adc}$ on each electrode	1.15

MECHANICAL DATA-GENERAL

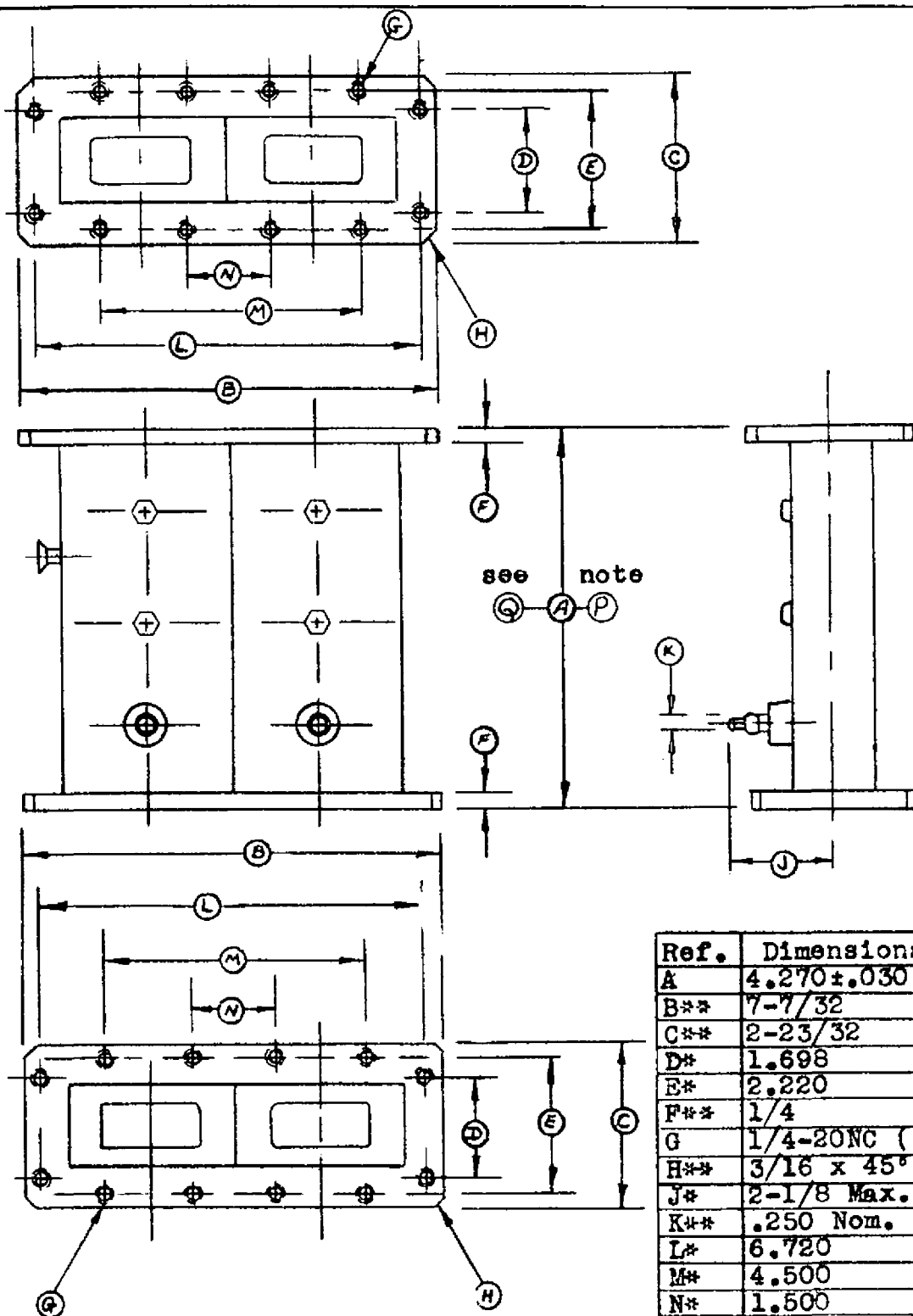
Mounting Position	Any
Number of Electrodes	Two
Weight, approximately	5.25 lbs.

ABSOLUTE MAXIMUM RATING

Transmitter Peak Power	750 kw
Transmitter Average Power	750 W
Ignitor Current (each electrode)	200 μ Adc

OUTLINE DRAWINGS

Outline as per attached drawing dated 6-15-56
Mating Flange as per attached drawing dated 10-20-54



Ref.	Dimensions
A	4.270±.030
B**	7-7/32
C**	2-23/32
D*	1.698
E*	2.220
F**	1/4
G	1/4-20NC (12) Holes
H**	3/16 x 45°
J*	2-1/8 Max.
K**	.250 Nom.
L*	6.720
M*	4.500
N*	1.500
Q	5.540±.030
P	6.640±.030

Note:- Dimension A applies to BL-652 only.
Dimension P applies to 6636/BL-87 only.
Dimension Q applies to BL-638 only.

SPECIFICATION SHEET

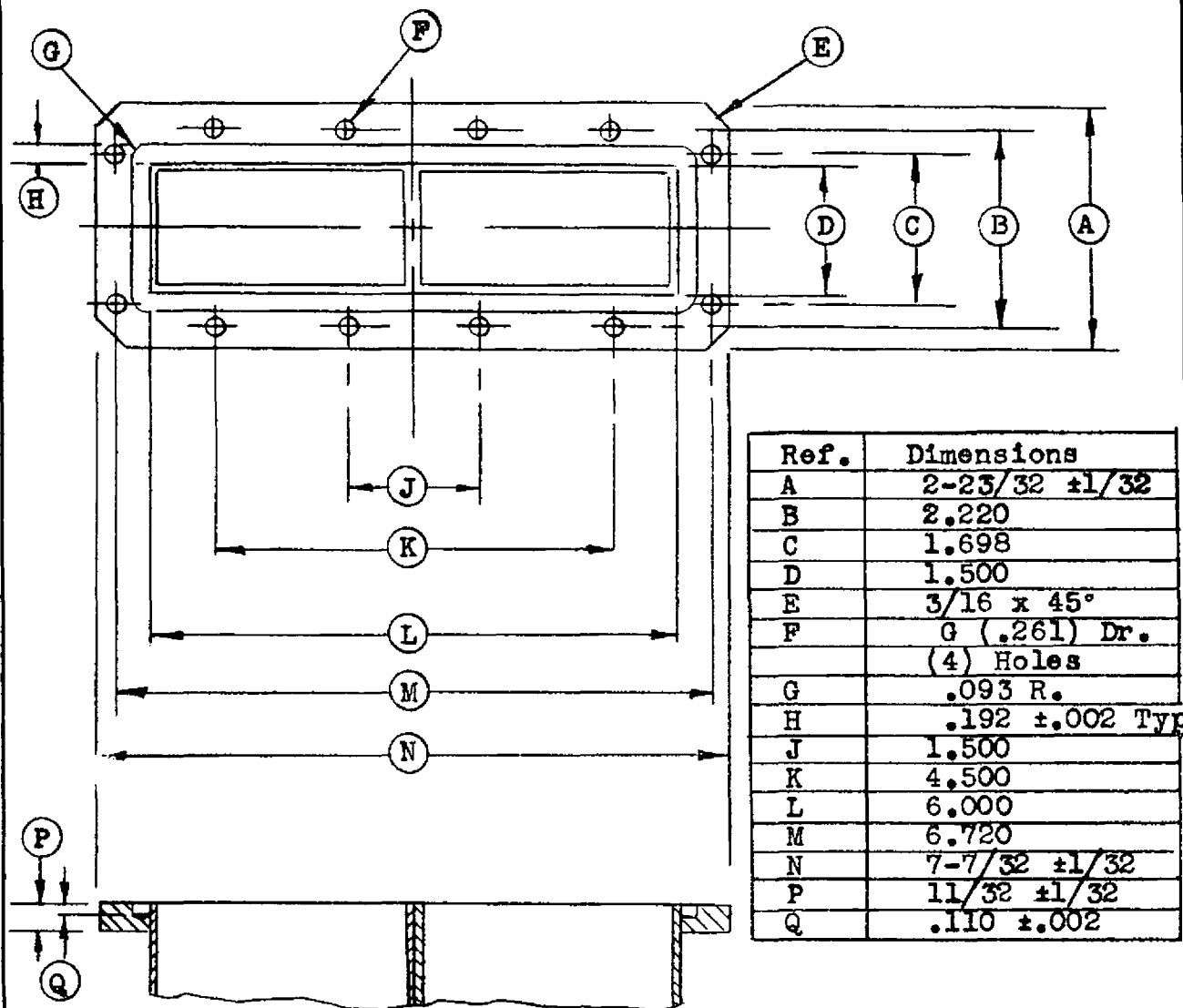
Outline

BL-638, BL-652, 6636/BL-87

BOMAC LABORATORIES INC.
SALEM ROAD
BEVERLY, MASSACHUSETTS

6-15-56

FOR



Note:
 Used on the following:
 BL-638
 6636/BL-87
 BL-346
 BL-652
 BL-357

GS-2E-1.10.20.05	SPECIFICATION SHEET	BOMAC LABORATORIES INC. SALEM ROAD Beverly, MASSACHUSETTS 10-20-54 R.R.
	MATING FLANGE	