

JETEC TYPE DESIGNATION REGISTRATION FORM

TR TUBES

<b>Manufacturer's Designation:</b>	<b>BL-28</b>	<b>December 10, 1956</b>
<b>JETEC Designation:</b>	<b>6568</b>	
<b>Manufacturer:</b>	<b>Bomac Laboratories, Inc. Beverly, Massachusetts</b>	

GENERAL CHARACTERISTICS

The 6568 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 5395 to 5905 megacycles per second.

ELECTRICAL DATA - TYPICAL VALUES

<b>Operational Band</b>	
VSWR 1.9 maximum	5395 to 5905 Mc/s
VSWR 1.4 maximum	5450 to 5825 Mc/s
<b>Ignitor Ignition Time (max. )</b>	5 sec.
<b>Ignitor Voltage Drop at <math>I_i = 100</math> uAdc.</b>	200 to 400 Vdc.
<b>Spike Leakage Energy (max. )</b>	0.25 ergs.
F = 5650 Mc; $P_o = 10$ kw	
$t_{p1} = 1.0$ us; $t_{p2} = 0.5$ us.	
prf = 1000 pps; $I_i = 100$ uAdc.	
<b>Flat Leakage Power (max. )</b>	70 mw.
(See Spike Leakage for test conditions)	
<b>Insertion Loss (max. ) <math>I_i = 0</math>.</b>	0.8 db.
<b>Ignitor Interaction (max. ) <math>I_i = 100</math> uAdc.</b>	0.2 db.
<b>Recovery Time (max. ) at 100 kw peak 3 db down</b>	6.0 us.
<b>Position of Short (F = 5650 Mc. ) Note 1</b>	
At 10 kw peak	0.095 to 0.115 in.
At 100 kw peak	0.080 to 0.100 in.
(Position of short is measured from the input flange face and is further from the magnetron within indicated limits. )	

MECHANICAL DATA - GENERAL

<b>Mounting Position</b>	Any
<b>Weight, approximately</b>	1 3/4 lbs.

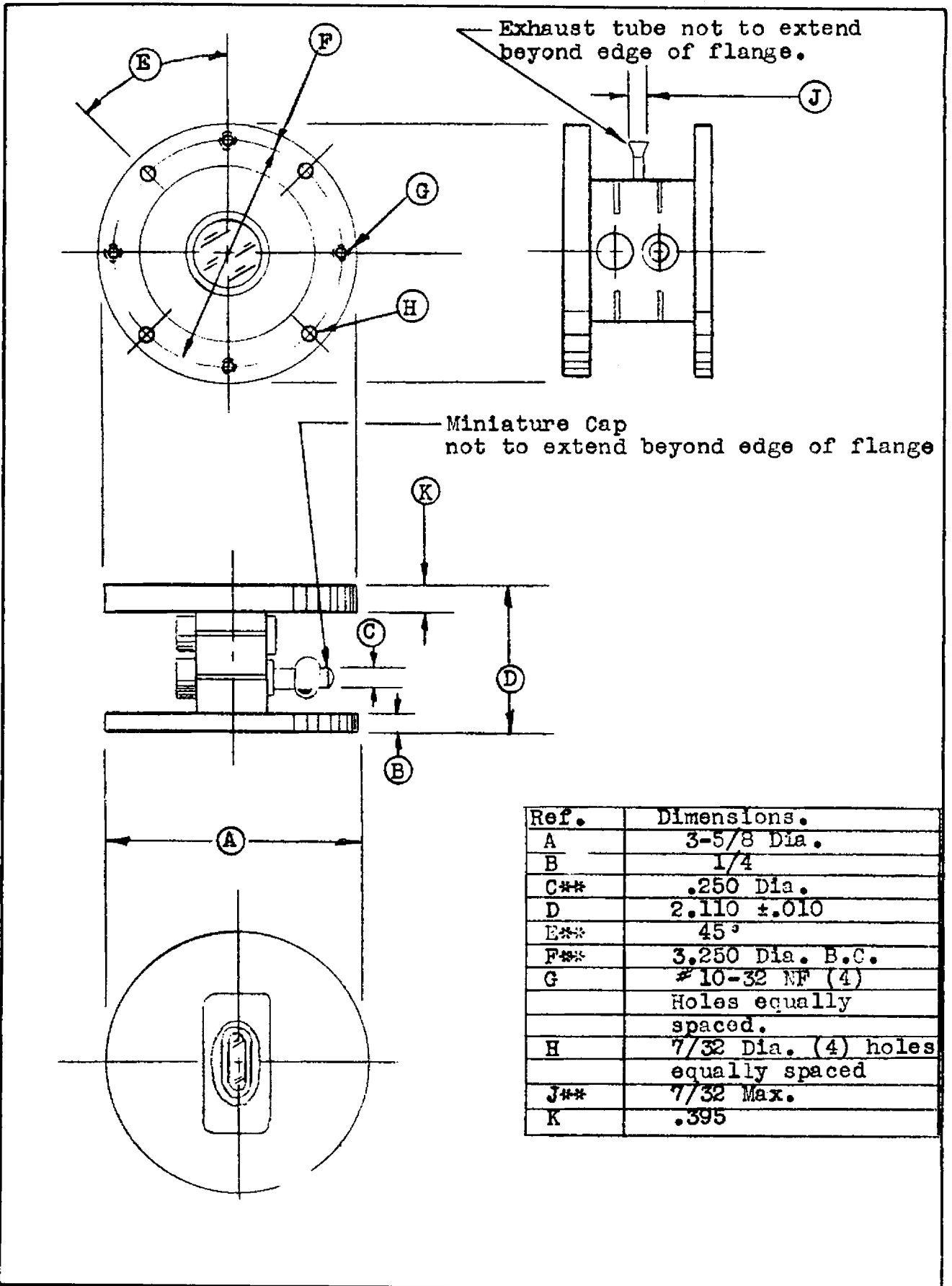
**ABSOLUTE MAXIMUM RATINGS**

<b>Transmitter Peak Power</b>	<b>3000 kw.</b>
<b>Transmitter Average Power</b>	<b>4500 W.</b>
<b>Ignitor Current</b>	<b>200 ma.</b>

**OUTLINE DRAWING**

**See attached drawing dated 11-24-54.**

**Note 1: The input of the tube is to mate with a UG 148 A/U  
or equivalent narrow band choke flange.**



Ref.	Dimensions.
A	3-5/8 Dia.
B	1/4
C**	.250 Dia.
D	2.110 ±.010
E**	45°
F**	3.250 Dia. B.C.
G	#10-32 NF (4)
	Holes equally spaced.
H	7/32 Dia. (4) holes equally spaced
J**	7/32 Max.
K	.395

## SPECIFICATION SHEET

OUTLINE

6568/ BL-28

BOMAC LABORATORIES INC.  
SALEM ROAD  
BEVERLY, MASSACHUSETTS

11-24-54 R.R.