BOMAC LABORATORIES, INC. BEVERLY, MASS. FEBRUARY 25, 1955

TYPE DESIGNATION REGISTRATION FORM

TR TUBE

Manufacturer: Bomac Laboratories, Inc.
Beverly, Massachusetts

Mfr's. Type No. - BL-11

Tentative JETEC Type No. 6282

The 6282/BL-11 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 with fixed tuned gaps. Its operational band is from 23,350 to 24,950 megacycles per second.

ELECTRICAL DATA - GENERAL

Operational Band - VSWR 1.9 max.	23.35 to 24.95 KMc.
" " - VSWR 1.4 max.	23.50 to 24.75 KMc.
" " - VSWR 1.2 max.	23.70 to 24.30 KMc.
Ignitor Starting Voltage (ignitor negative)	750 Vdc. max.
Ignitor Voltage Drop at Ii = 100 μAdc.	325 to 475 Vdc.
Spike Leakage Energy	0.2 erg max.
po = 30 kw; prr = 1000 pps; tp_1 = 0.5 μs; tp_2 = 0.25 μs; F = 24.00 KMc; Ii = 100 μAdc.	
Flat Leakage Power	40 mw max.
Conditions - See Spike Leakage Energy	
Insertion Loss at 24.00 KMc and Ii = 100 μAdc	0.8 db max.
Recovery Time at 30 kw peak - 3 db down	4.0 μs max.

MECHANICAL DATA - GENERAL

Mounting Position	Any
Number of Ignitors	One
Ambient Temperature Range (non-operating)	-55°C to +100°C
Net Weight, approximately	2 ounces

from JETEC release #1452, April 25, 1955

TR TUBE - BL-11

MAXIMUM RATINGS

Transmitter Peak Power	35 kw.
Ignitor Current	200 μAdc.

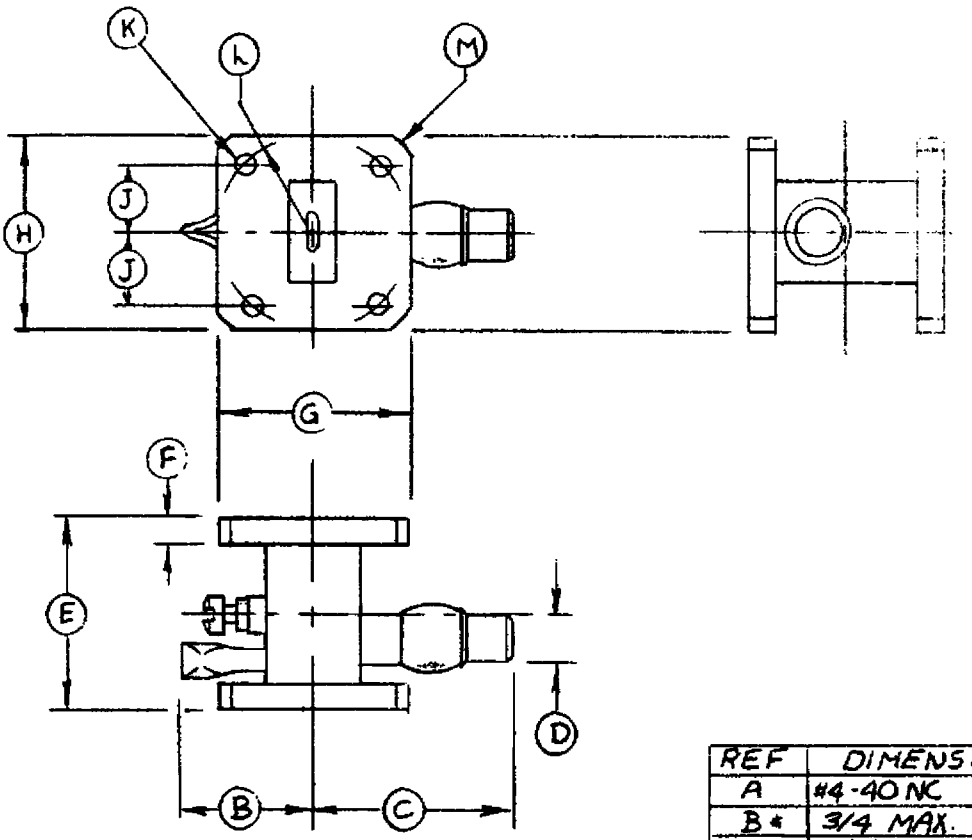
ELECTRICAL AND MECHANICAL DATA WITH LIMITS

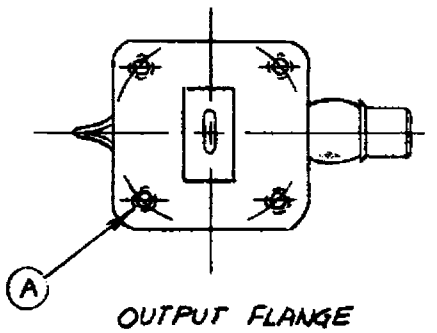
	Min.	Bogey	Max.	
Effective Short Plane (Measured from face of input flange)	0.0215	0.024	0.0265	In.

OUTLINE DRAWING

See attached drawing dated 10/26/54.

INPUT FLANGE





OUTPUT FLANGE

REF	DIMENSIONS
A	#4-40 NC 4 HOLES
B *	3/4 MAX.
C *	1 1/8 MAX.
D **	.250 DIA
E	.990 ±003
F **	1/8
G **	1.000
H **	1.000
J *	.340 ±002
K	.120 DIA. 4 HOLES
L *	.500 R. BOLT CIRCLE
M **	.625 R

NOTE:-
CONTACT SURFACES OF INPUT & OUTPUT FLANGES TO BE CADMIUM PLATED.
ALL OTHER METALLIC SURFACES TO BE PAINTED BLACK

	SPECIFICATION SHEET	BOMAC LABORATORIES INC SALEM ROAD BEVERLY MASSACHUSETTS
	OUTLINE 6282 / BL-11	10-26-54 E.D.

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