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 Il = 100 µAdc. 325 to 475 Vdc.
Spike Leakage Energy 0.2 erg max.
po = 30 kw; prr = 1000 pps;
tp1 = 0.5 µs; tp2 = 0.25 µs;
F = 24.00 KMc; Il = 100 µAdc.
Flat Leakage Power 40 mw max.
Conditions - See Spike Leakage Energy
Insertion Loss at 24.00 KMc and Il = 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
MAXIMUM RATINGS

Transmitter Peak Power 35 kw.
Ignitor Current 200 μAdc.

ELECTRICAL AND MECHANICAL DATA WITH LIMITS

Effective Short Plane (Measured from face of input flange)  

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<th>Min.</th>
<th>Bogey</th>
<th>Max.</th>
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<tr>
<td>0.0215</td>
<td>0.024</td>
<td>0.0265 In.</td>
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OUTLINE DRAWING

See attached drawing dated 10/26/54.
NOTE:—
CONTACT SURFACES OF INPUT & OUTPUT FLANGES TO BE CROMIUM PLATED.
ALL OTHER METALLIC SURFACES TO BE PAINTED BLACK

SPECIFICATION SHEET
OUTLINE

6282 / BL-11

REF | DIMENSIONS
---|------------
A  | #4-40 NC 4 HOLE
B  | 3/4 MAX.
C  | 1 1/8 MAX.
D  | .250 DIA
E  | .990 +.003
F  | 1/8
G  | 1/1000
H  | 1/1000
J  | .340 +.002
K  | 1/20 DIA, 4 HOLES
L  | 300 R BOLT CIRCLE
M  | .625 R

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