TR TUBE

Manufacturer's Designation: BL-95H
JTEC Designation 6645
Manufacturer: Bomac Laboratories, Inc.
Beverly, Massachusetts

March 12, 1957

GENERAL CHARACTERISTICS

The 6645 is a broad-band TR tube with attached heaters and thermostat to allow operation over a wide range of ambient temperature extending downward well below freezing. The TR tube is 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 8490 to 9578 megacycles.

ELECTRICAL DATA-TYPICAL VALUES

Operational Band
VSWR 1.9 maximum
VSWR 1.4 maximum
8490 to 9578 Mc/sec
8565 to 9487 Mc/sec

Ignitor Ignition Time (max.)
5 sec.

Ignitor Voltage Drop at Il=100μAdc
200-375 volts

Spike Leakage Energy (max.)
F=9000 Mc; po=40 kw; tp1=1.0 μs;
tp2=0.5 μs; prr=1000 pps;
Il=100μAdc
0.2 ergs

Flat Leakage Power (max.);
(see Spike Leakage for test conditions)
60 mw

Insertion Loss (max.) at 9000 Mc and Il=0
0.7 db

Ignitor Interaction (max.) at 9000 Mc and Il=100μAdc
0.2 db

Recovery Time (max.) at 100 kw peak 3 db down
1.5 μs

Heater Voltage (380-1000 cps)
115 Vac

Heater Wattage
25 W

Thermostat Cut-In Temperature (min.)
4°C

Thermostat Cut-Out Temperature (max.)
50°C

MECHANICAL DATA-GENERAL

Mounting Position
Any

Weight, approximately
6 ounces

from JETEC release #1919, May 6, 1957
ABSOLUTE MAXIMUM RATINGS

Transmitter Peak Power 100 kw
Transmitter Average Power 100 W
Ignitor Current 200μAdc
Thermostat Contact Current 2 Aac

OUTLINE DRAWING

As per attached drawing dated 12-30-54.
HEATERS, THERMOSTAT & EXHAUST STEM NOT TO EXCEED BEYOND FLANGES.
CLEARANCE MUST BE MAINTAINED FOR SOCKET HEAD SCREWS.

LEADS

THERMOSTAT

OUTPUT FLANGE

SPECIFICATION SHEET

OUTLINE

6645/BBL-93H, BL-611H

BOMAC LABORATORIES INC.
SALEM ROAD
BEVERLY, MASSACHUSETTS

12-30-54