Manufacturer's Designation: BL-615
JETEC Designation: 6648
Manufacturer: Bomac Laboratories, Inc.
Beverly, Massachusetts

April 1, 1957

GENERAL CHARACTERISTICS

The 6648 is a double broadband TR tube designed to operate in a system which makes use of each half of the tube in separate channels. It is for use with RG52/U size waveguide. It is an integral cavity type with fixed tuned gaps. Its operational band is from 8490 to 9578 megacycles.

ELECTRICAL DATA-TYPICAL VALUES

Note 1
Operational Band
  VSWR 1.9 maximum
    VSWR 1.4 maximum
  Ignitor Ignition Time (max.) 5 sec.
  Ignitor Voltage Drop at Ii=100μAdc 200-375 volts
  Spike Leakage Energy (max.)
    F=9000 Mc; po=40kw; tp1=1.0μs;
       tp2=0.5μs; prr=1000 pps;
     Ii=100μAdc
    0.3 ergs
  Flat Leakage Power (max.)
     (See Spike Leakage for test conditions)
    40 mw
  Insertion Loss (max.) at F=9000 Mc and Ii=0 0.7 db
  Ignitor Interaction (max.) at F=9000 Mc and Ii=100μAdc 0.2 db
  Recovery Time (max.) at 200kw peak 3 db down 10 μs

MECHANICAL DATA-GENERAL

Mounting Position
  Any
Number of Electrodes
  Two
Weight, approximately
  8 ounces

ABSOLUTE MAXIMUM RATINGS

Transmitter Peak Power
  200 kw
Transmitter Average Power
  200 W
Ignitor Current
  200μAdc

from JETEC release #1919, May 6, 1957
OUTLINE DRAWING

Outline as per attached drawing dated 3-18-55
Tube Mounting per attached drawing dated 11-2-54

Note 1: Each half of the tube is measured as a separate unit.