Manufacturer's Designation: BL-56
JETEC Designation: 6649
Manufacturer: Bomac Laboratories, Inc.
Beverly, Massachusetts

GENERAL CHARACTERISTICS

The 6649 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 15.0 to 17.0 kilomegacycles

ELECTRICAL DATA-TYPICAL VALUES

Operational Band
  VSWR 1.9 maximum
  VSWR 1.4 maximum

Ignitor Ignition Time (max.)
  5 sec.

Ignitor Voltage Drop at li=100µAdc
  350-500 volts

Spike Leakage Energy (max.)
  0.30 ergs

F=16000Mc; po=80 kw;
  t1=0.5µs; tp2=0.25µs
  prr=3000pps; li=100µAdc

Flat Leakage Power (max.)
  (See Spike Leakage for test conditions)

Insertion Loss (max.) at F=16,000Mc and li=0
  0.7 db

Ignitor Interaction (max.) at F=16,000Mc and li=100µAdc
  0.2 db

Recovery Time (max.) at 80 kw peak 3 db down
  10 µs

High Level VSWR (max.)
  1.2

  F= 16,000 Mc; po=40kw;
  tp=0.5µs; prr=3000 pps;
  li=100µAdc.

MECHANICAL DATA-GENERAL

Mounting Position
  Any

Weight, approximately
  3 ounces

ABSOLUTE MAXIMUM RATINGS

Transmitter Peak Power
  100 kw

Transmitter Average Power
  67 W

Ignitor Current
  200 µAdc

OUTLINE DRAWING

As per attached drawing dated 5-18-55

from JETEC release #1938, June 3, 1957
NOTE: - EXHAUST STEM
NOT TO EXTEND BEYOND FLANGES.
ETCH INPUT AND OUTPUT OF TUBE ON TOP CAP SPACER.

SPECIFICATION SHEET
OUTLINE
6649/BL-56

BOMAC LABORATORIES INC.
SALEM ROAD
BEVERLY, MASSACHUSETTS
5-18-55