JETEC TYPE DESIGNATION REGISTRATION FORM

TR TUBE

Manufacturer's Designation: BL-56

April 1, 1957

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 kilome gacycles

ELECTRICAL DATA-TYPICAL VALUES

Operational Band

VSWR 1.9 maximum 15,000 to 17,000 Mc/s

VSWR 1. 4 maximum 15,060 to 16,940 Mc/s

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;

tpl=0.5 μ s; tp2=0.25 μ s

prr=3000pps; Ii=100µAdc

Flat Leakage Power (max.)

(See Spike Leakage for test conditions)

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

Ignitor Interaction (max.) at F=16,000Mc and Ii=100µAdc 0.2 db Recovery Time (max.) at 80 kw peak 3 db down 10 µs

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;

Ii=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

