JETEC TYPE DESIGNATION REGISTRATION FORM

TR TUBES

Manufacturer's Designation: BL-604 March 14, 1957

JETEC Designation: 6646

Manufacturer: Bomac Laboratories, Inc.

Beverly, Massachusetts

GENERAL CHARACTERISTICS

The 6646 is a dual broad-band gas switching tube designed to operate with a suitable short-slot hybrid junctions to provide a balanced duplexer using RG-52/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

Operational Band	
VSWR 1.4 maximum	8490 to 9578Mc/sec
VSWR 1.2 maximum	8565 to 9487Mc/sec
Ignitor Ignition Time (max.)	5 s ec.
Ignitor Voltage Drop Ii=100µAdc	200-375 volts
(each electrode)	
Spike Leakage Energy (max.)	0.1 ergs
F= 9000Mc; po=40kw; tp1=1.0psec.	•
tp2=0.5µsec; prr=1000pps;	
Ii=100µAdc on each electrode	
Flat Leakage Power (max.)	20 mw
(see Spike Leakage for test conditions)	
Duplexer Loss (max.) and Ii=100µAdc on each electrode	e
from 8490 to 9578Mc.	1.2 db
from 8565 to 9487Mc.	1.0 db
Isolation (min.)	
from 8490 to 9578Mc.	14.0 db
from 8565 to 9487Mc.	16.0 db
at 9000Mc.	18.0 d b
Recovery Time (max.) at 100kw peak 3 db down	1.5 μs
High Level VSWR (max.)	1. 2
F= 9000Mc; po=40kw; tp=1.0μs;	
Ii=100µAdc on each electrode	

MECHANICAL DATA-GENERAL

Mounting Position Any
Number of Electrodes Two

Weight, approximately 10 ounces

ABSOLUTE MAXIMUM RATINGS

Transmitter Peak Power 100kw
Transmitter Average Power 100W
Ignitor Current (each electrode) 200μAdc

OUTLINE DRAWINGS

Outline per attached drawing dated 6-29-56

