#### JETEC TYPE DESIGNATION REGISTRATION FORM

#### PRE-TR TUBE

Manufacturer's Designation: BL-96A

March 7, 1957

JETEC Designation: 6605

Manufactuere: Bomac Laboratories, Inc. Beverly, Massachusetts

## GENERAL CHARACTERISTICS

The 6605 is a Pre-TR gas switching tube designed to supplement the standard TR tube at moderate and high power levels and is used to prevent crystal burnout resulting from magnetron sparking. It consists of a quarter wave section of waveguide with low Q windows sealed at the ends. When fired the gas discharge spreads across the entire input window, and provides the necessary attenuation at all frequencies to reduce the harmonic magnetron frequencies associated with magnetron sparking to a safe level. At the same time, the arc voltage is high enough so that the energy leaking through the tube is sufficient to reliably fire the TR tube. Its operational band is from 1250 to 1350 Megacycles.

### **ELECTRICAL DATA - TYPICAL VALUES**

### Operational Band

VSWR 1.4 maximum 1250 to 1350 Mc/s VSWR 1.2 maximum 1265 to 1335 Mc/s

Average Leakage Power

F=1300 Mc; po=2000 kw; 50 mw (max.) tp=4.0 μs; prr=250 pps 10 mw (min.)

Insertion Loss (max.) at F=1300 Mc 0.4 db Recovery Time (max.) at 2000 kw peak 3 db down 45  $\mu$ s High Level VSWR (max.) 1.2

F=1300 Mc; po=500 kw; tp=4\mus; prr=250 pps

#### MECHANICAL DATA - GENERAL

Mounting PositionAnyPressurization25 psiaWeight, approximately5 lbs.

# ABSOLUTE MAXIMUM RATINGS

Transmitter Peak Power
Transmitter Average Power

2000 kw 2000 W

## OUTLINE DRAWING

As per attached drawing dated 3-26-56

