# JETEC TYPE DESIGNATION REGISTRATION FORM

### TR TUBE

Manufacturer's Designation: BL-643 April 24, 1957

JETEC Designation: 6906

Manufacturer: Bomac Laboratories, Inc. Beverly, Massachusetts

## GENERAL CHARACTERISTICS

The 6906 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 5395 to 5905 megacyties.

## ELECTRICAL DATA-TYPICAL VALUES

Operational Band		
VSWR 2.0 maximum		5395 to 5905 Mc/sec
VSWR 1.5 maximum		5450 to 5825 Mc/sec
Ignitor Ignition Time (max.)		5 sec.
Ignitor Voltage Drop at li=190 nAdc		200-400 Vdc.
Spike Leakage Energy (max.)		0.40 ergs
F=5650 Mc; po=5 kw; tpl=L 0 ns		_
tp2=0.5 ms; prr=1000 pps; H=100 A	ıAdc	
Flat Leakage Power (max.)		85 mw
(see Spike Leakage for test condi	tions)	
Insertion Loss (max.) at 5650 Mc and li=0		0.4 db
Ignitor interaction (max.) at 5650 M	c and	
H=100 nAdc		9. 2 dg
Recovery Time (max.) at 5 kw peak 3 db down		7.0 us
Phase Shift		
F=5450 Mc	<del>1</del> : -56	-66 deg.
F=5650 Mc	<b>‡:</b> -2	-12 deg.
F=5825 Mc	₹: +34	<b>444</b> deg.
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#### MECHANICAL DATA - GENERAL

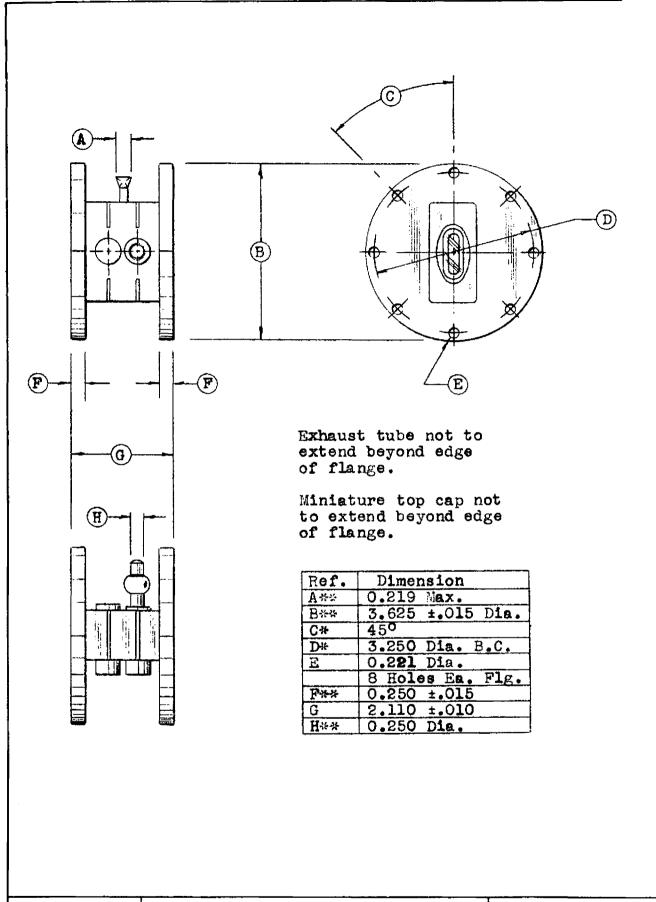
Mounting Position	Any
Weight, approximately	1. 5 lbs

## ABSOLUTE MAXIMUM RATINGS

Transmittdr Peak Power	5 kw
Transmitter Average Power	5 W
Ignitor Current	200 nAdc

#### OUTLINE DRAWING

As per attached drawing dated 11-2-54



SPECIFICATION SHEET		BOMAC LABORATORIES INC. SALEM ROAD
	Outline 6906/BL-643	BEVERLY, MASSACHUSETTS
	BL-89, 5865/TR-361	11-2-54 clr