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 kilomegacycles

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 Ii=100μAdc	350-500 volts
Spike Leakage Energy (max.)	0.30 ergs
F=16000Mc; po=80 kw;	
tp1=0.5μs; tp2=0.25μs	
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
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

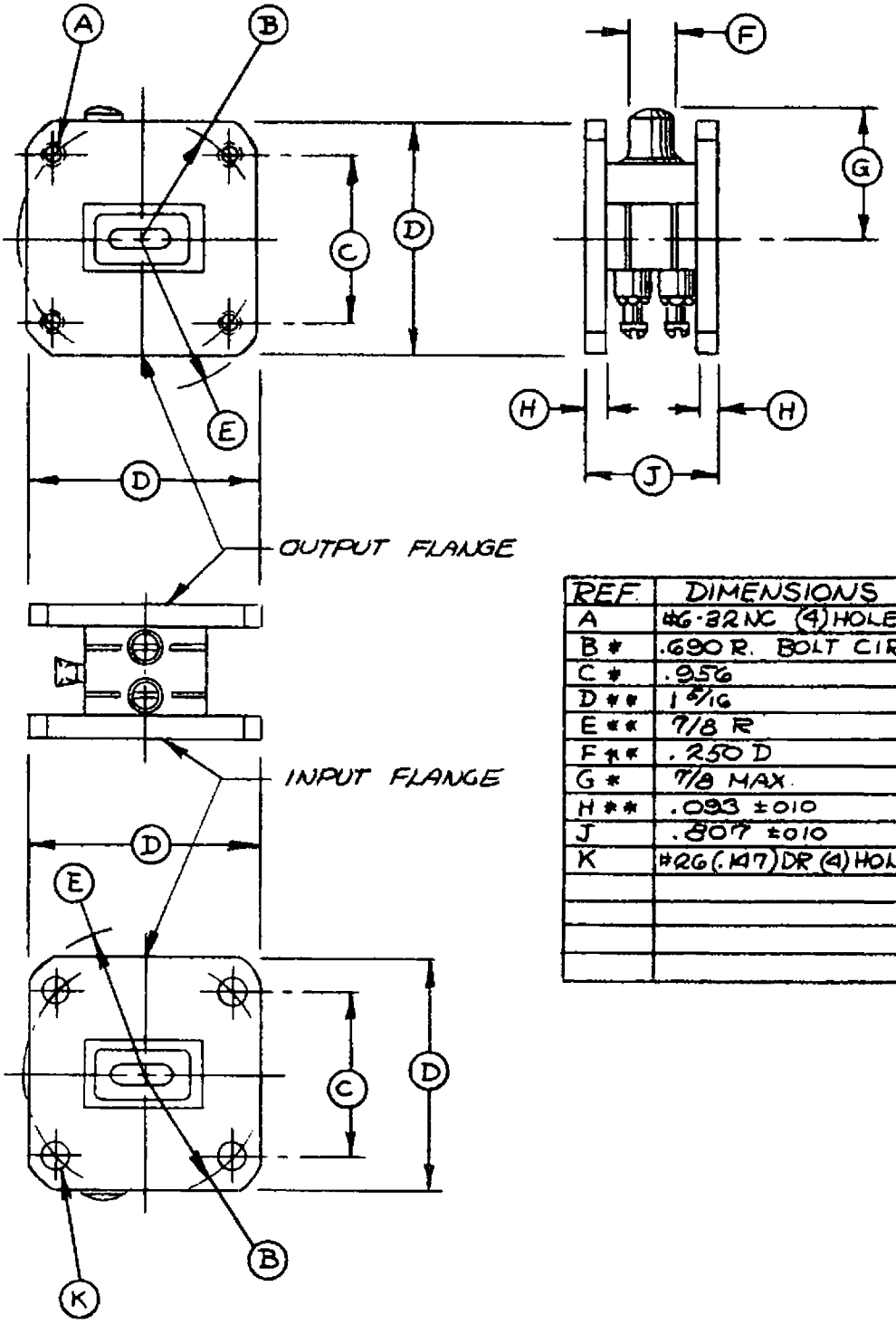
ABSOLUTE MAXIMUM RATINGS

Transmitter Peak Power	100 kw
Transmitter Average Power	67 W
Ignitor Current	200 μAdc

OUTLINE DRAWING

As per attached drawing dated 5-18-55

from JETEC release #1938, June 3, 1957



REF.	DIMENSIONS
A	#6-32 NC (4) HOLES
B *	.690 R. BOLT CIR.
C *	.956
D **	1 5/16
E **	7/8 R
F **	.250 D
G *	7/8 MAX.
H **	.093 ±010
J	.807 ±010
K	#26 (.147) DR (4) HOLES

NOTE:- EXHAUST STEM
NOT TO EXTEND BEYOND FLANGES.
ETCH INPUT AND OUTPUT OF TUBE
ON TOP CAP SPACER.

	SPECIFICATION SHEET	BOMAC LABORATORIES INC. SALEM ROAD BEVERLY, MASSACHUSETTS
	OUTLINE 6649/BL-56	5-18-55

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