JETEC TYPE DESIGNATION REGISTRATION FORM

ATR TUBES

Manufacturer's Designation: BL-54 **March 7, 1957**
JETEC Designation: 6629
Manufacturer: Bomac Laboratories, Inc.
Beverly, Massachusetts

GENERAL CHARACTERISTICS

The 6629 is a broad band ATR tube designed to effectively decouple the transmitter from a common transmitting and receiving antenna during a non-transmitting period. It is designed to operate over a frequency range from 8650 to 8950 megacycles.

ELECTRICAL DATA-TYPICAL VALUES

Center Frequency	8800 Mc/sec.
Operation Band at VSWR 12 minimum	8760 to 8840 Mc/sec.
Loaded Q (max.)	6.5
Transmitter Peak Power (max)	250 kw
Transmitter Peak Power (min.)	5 kw
Equivalent Conductance (max.)	0.1
Tuning Susceptance (max.)	±0.06
Arc Power Loss (max.)	0.8 db
F=8800 Mc; po=4.0 kw; tp=0.5μs; prr=1000 pps	
Recovery Time (max.)	8.0 μsec
F=8800 Mc; po=50kw; tp=1.0 μsec; prr=1000 pps.	

MECHANICAL DATA - GENERAL

Mounting Position	Any
Weight, approximately	1.2 ozs.

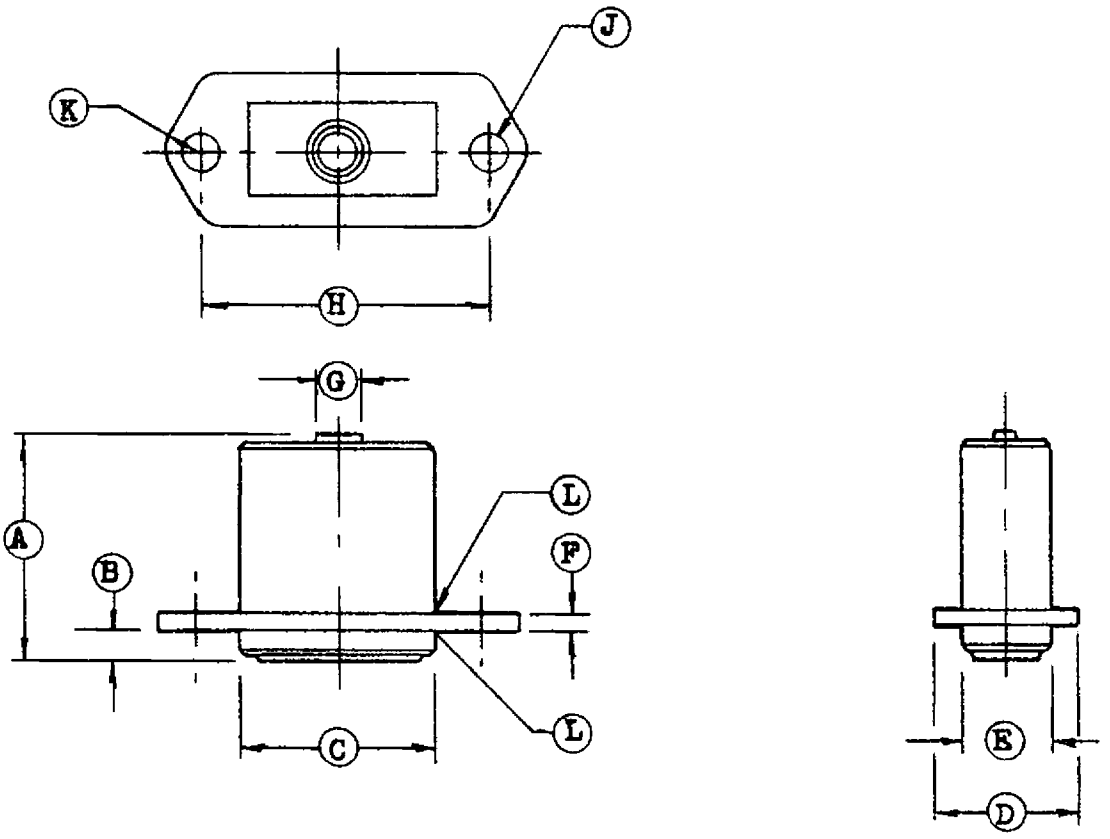
ABSOLUTE MAXIMUM RATINGS

Transmitter Peak Power	250 kw
Transmitter Average Power	250 W

OUTLINE DRAWING

Outline as per attached drawing dated 12-8-54
Mounting Seat as per attached drawing dated 10-1-54

from JETEC release #1906, April 22, 1957



Ref.	Dimension
A*	1.200 Max.
B	0.145
C	1.000
D*	0.781
E	0.500
F**	0.093
G**	1/4 Max.
H*	1.500±.003
J	#18(.1695) Dr. 2 Holes
K**	3/16 Rad.
L**	0.030 Rad. Max.

	SPECIFICATION SHEET	BOMAC LABORATORIES INC. SALEM ROAD BEVERLY, MASSACHUSETTS
	Outline 6304/BL-43 6629/BL-54, 6630/BL-55,	12- 8-54 clr

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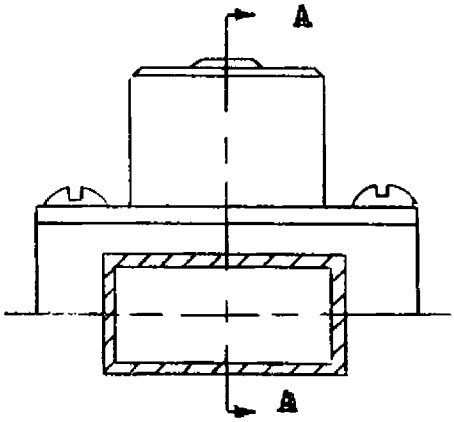
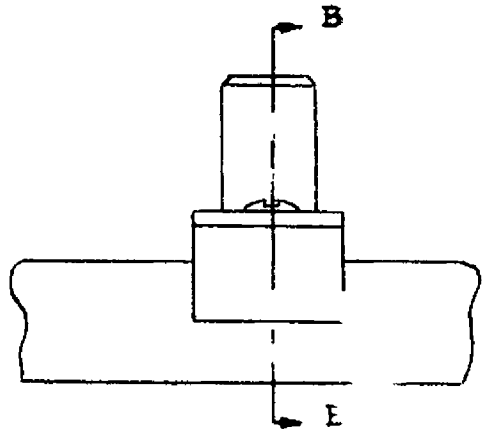
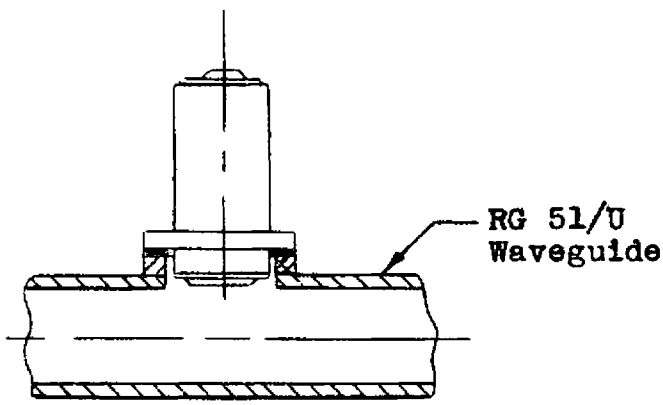
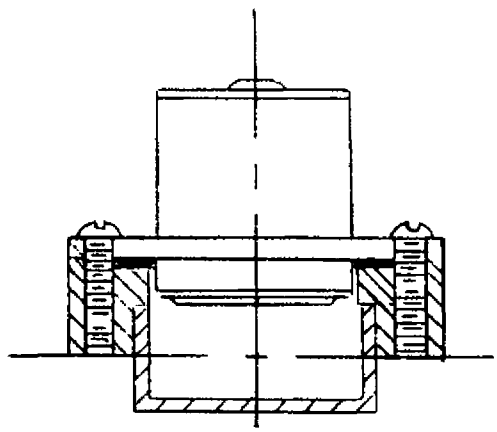






Section A-A of seat showing tube in position



Section B-B of seat showing tube in position

NOTES

1. Design of holder optional
2. Tube held firmly in place by screw clamp
3. Bottom of tube is to be approx. flush (±.004) with inside surface of waveguide.

	SPECIFICATION SHEET	BOMAC LABORATORIES INC. SALEM ROAD BEVERLY, MASSACHUSETTS
GS-2E-1.10.30.09	TUBE MOUNTING 6629/BL-54, BL-55/6630	10-1-54 R.R.

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