JETEC TYPE DESIGNATION REGISTRATION FORM

TR TUBES

Manufacturer's Designation:	BL-35	March 4, 1957
JETEC Designation:	6560	
Manufacturer:	Bomac Laboratories, Inc. Beverly, Massachusetts	

GENERAL CHARACTERISTICS.

The 6560 (BL-35) is a dual broad-band gas switching tube designed to operate with suitable short-slot hybrid junctions to provide a balanced duplexer using RG91/U size waveguide. It is an integral cavity type. Its operational band is from 15,000 to 17,000 megacycles.

ELECTRICAL DATA-TYPICAL VALUES.

Operational Band		
VSWR 1.4 maximum		15,000 to 17,000 Mc/s
VSWR 1.2 maximum		15,060 to 16,940 Mc/s
Ignitor Ignition Time (max.) each electrode		5 sec.
Ignitor Voltage Drop at Ii=100μAdc (each electrode)		200-475 volts
Spike Leakage Energy (max.) F= 16,000 Mc; po=20kw; tp1=0.5μsec; tp2=0.25μsec; prr=3000pps; Ii=100μAdc each electrode		0.10 ergs
Flat Leakage Power (max.) (See Spike Leakage Energy for test conditions)		20 mw
Duplexer Loss (max.)		
15,000 to 17,000 Mc and Ii=100μAdc each electrode		1.4 db
15,060 to 16,940 Mc and Ii=100μAdc each electrode		1.2 db
Isolation (max.)		
15,000 to 17,000Mc and Ii=100μAdc each electrode		10 db
15,060 to 16,940Mc and Ii=100μAdc each electrode		12 db
Recovery Time(max.) at 90kw peak 3 db down		10μsec.
High Level VSWR (max.) F= 16,000 Mc; po=20 kw peak; tp1=0.5μsec; prr=3000 pps; Ii=100μAdc. each electrode		1.2

MECHANICAL DATA- GENERAL.

Mounting Position	Any
Pressurization (max.)	30 lbs. gauge
Weight, approximately	3 ounces

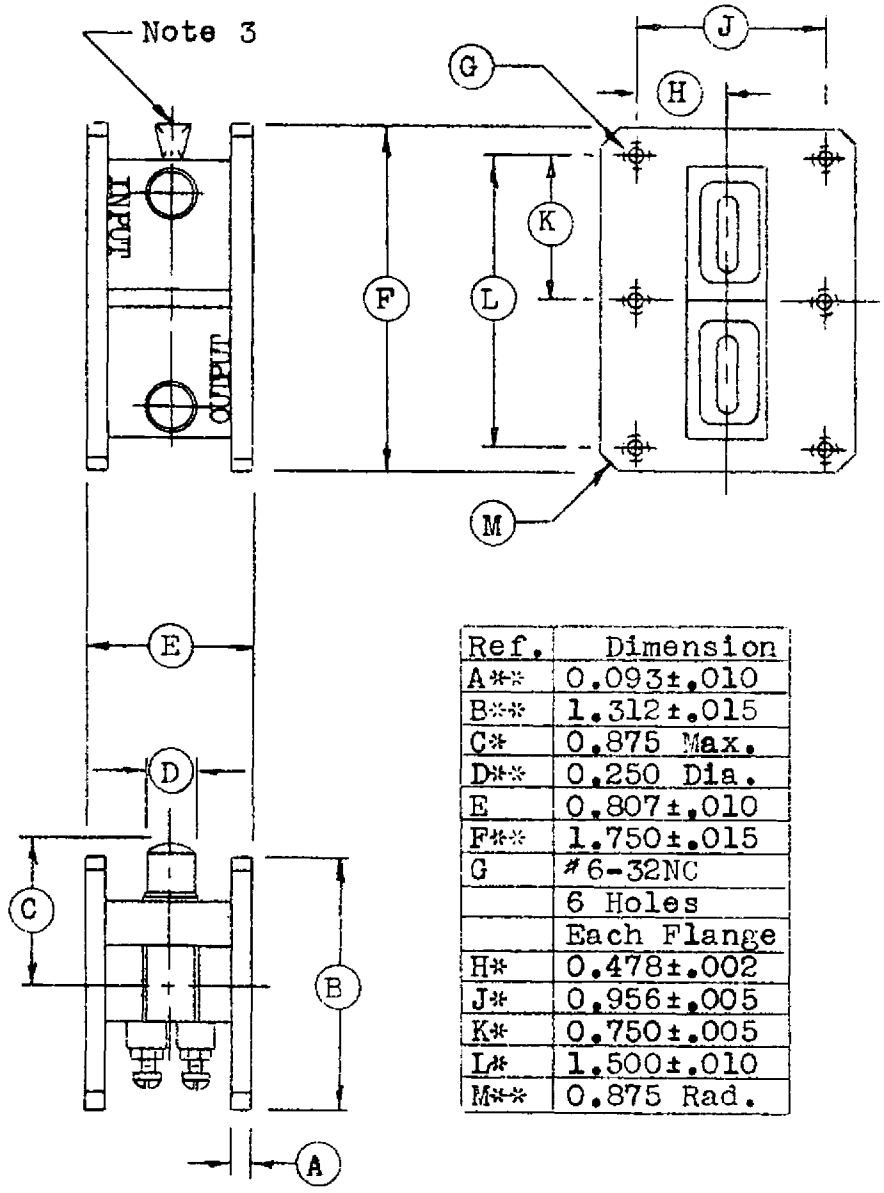
from JETEC release #1906, April 22, 1957

ABSOLUTE MAXIMUM RATINGS.

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

OUTLINE DRAWINGS.

Tube outline as per attached drawing dated 6-29-56
Mating flange as per attached drawing dated 6-29-56



Ref.	Dimension
A**	0.093±.010
B**	1.312±.015
C*	0.875 Max.
D**	0.250 Dia.
E	0.807±.010
F**	1.750±.015
G	#6-32NC
	6 Holes
	Each Flange
H*	0.478±.002
J*	0.956±.005
K*	0.750±.005
L*	1.500±.010
M**	0.875 Rad.

Note 1:- Etch INPUT and OUTPUT of tube on top cap spacer.
Note 2:- Rhodium flash over silver plating is optional.
Note 3:- Exhaust tube not to extend beyond flanges.

	SPECIFICATION SHEET	BOMAC LABORATORIES INC. SALEM ROAD BEVERLY, MASSACHUSETTS
	Outline 6560/BL- 35	6-29-56 clr

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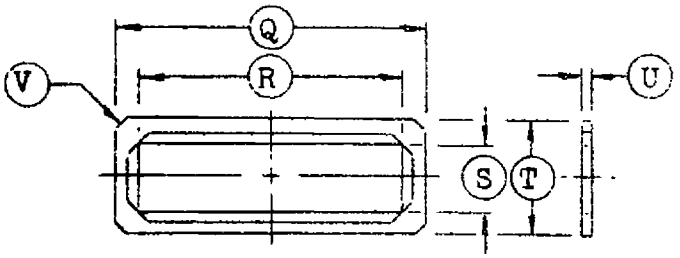
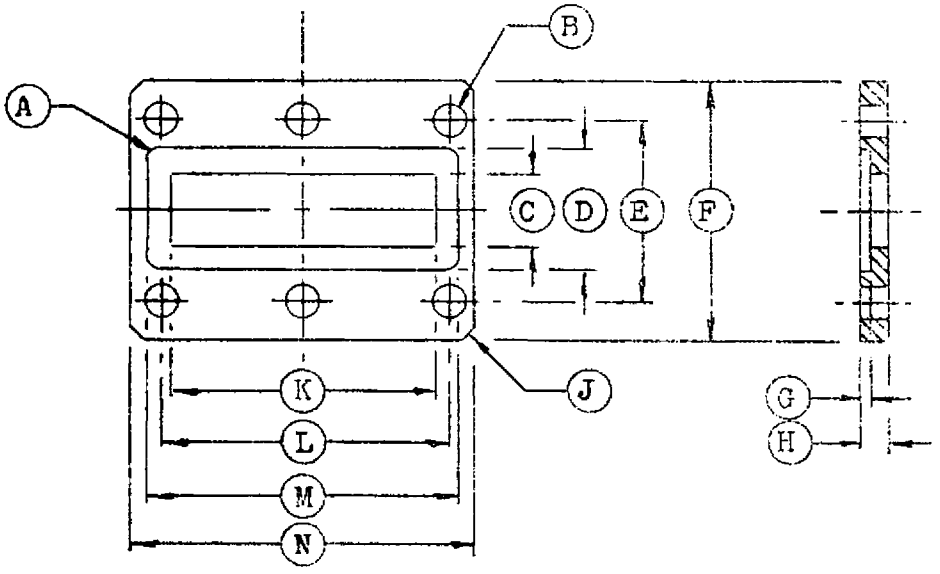


Gasket



Mating Flange

Ref.	Dimension
A	1/16 Rad.
B	#26(.147) Dr. 6 Holes
C	0.394+.002-.000
D	0.656
E	0.956±.004
F	1 5/16
G	0.023±.001
H	3/32
J	7/8 Rad.
K	1.364+.002-.000
L	1.500±.004
M	1.625
N	1 3/4
Q	1 37/64
R	1.384±.005
S	0.431±.005
T	39/64
U	0.037±.005
V	1/32 x 45°

GS-2E-1.10.20.02

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	Mating Flange and Gasket 6560/BL- 35	6-29-56 clr

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