JETEC TYPE DESIGNATION REGISTRATION FORM

ATR TUBE

Manufacturer's Designation: BL 650
JETEC Designation: 6890
Manufacturer: Bomac Laboratories, Inc.
Beverly, Massachusetts

April 12, 1957

GENERAL CHARACTERISTICS

The 6890 is a broad band ATR tube designed to effectively decouple the transmitting and receiving antenna during a non-transmitting period designed to operate over a frequency range 9000 to 9600 megacycles per second. To be used in half height RG-52/U size guide.

ELECTRICAL DATA - TYPICAL VALUES

Center Frequency 9300 Mc/s
Loaded Q (max.) 6.5
Transmitter Peak Power (max.) 30 kw
Transmitter Peak Power (min) 0.5 kw
Equivalent Conductance (max.) 0.1
Tuning Susceptance (max.) ±0.06
Arc Power Loss (max.) 1.6 db

F=9300 mc; po=4.0 kw;
	 tp=0.5 us; prr=1000 pps; TA=95 deg. C
Recovery Time (max.) 8.0 us
F=9300 Mc; po=5.0 kw;
	 tp=0.5 us; prr 1000 pps

MECHANICAL DATA - GENERAL

Mounting Position Any
Weight, approximately 1.25 ozs.

ABSOLUTE MAXIMUM RATINGS

Transmitter Peak Power 30 kw
Transmitter Average Power 15 W

OUTLINE DRAWINGS

Outline per attached drawing dated 11-23-54
Mounting Seat per attached drawing dated 7-13-54
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.
4. Tube used with half height guide I.D. = .200 ± .003 x .900 ± .003.

SPECIFICATION SHEET
TUBE SEAT MOUNTING
GS-2E-1.10.30.14 6890/BL-650, BL-77, 6396
7-13-54 R.R.
Ref. Dimension
A  1.000
B**  0.030 Rad. Max.
C*  0.0965+0.003-0.002
D  0.279±.003
E  1.200±.003
F**  0.070-0.080 Rad.
G  0.700±.003
H**  0.250 Dia. Max.
J*  1.250 Max.
K  0.500

Outline used for following tubes:-

6369  BL- 68  BL- 77
6393  BL- 69  6890/BL-650
6396  BL- 70
       BL- 76