JETEC TYPE DESIGNATION REGISTRATION FORM

ATR TUBES

Manufacturer's Designation: BL-55
JETEC Designation: 6630
Manufacturer: Bomac Laboratories, Inc.
Beverly, Massachusetts

March 7, 1957

GENERAL CHARACTERISTICS

The 6630 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 9000 to 9600 megacycles.

ELECTRICAL DATA - TYPICAL VALUES

Center Frequency 9375 Mc/sec.
Operational Band at VSWR 12 minimum 8960 to 9640 Mc.
Load Q (max.) 8.0
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=9375; po=4.0 kw;
 tp=0.5 μsec; prr=1000 pps
Recovery Time (max.) 8.0 μs
F=9375 Mc; po=50 kw;
 tp=1.0 μs; 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 #1897, April 15, 1957
Ref. | Dimension
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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 ± 0.003 
J | #18 (.1695) Dr. 2 Holes 
K** | 3/16 Rad. 
L** | 0.030 Rad. Max. 

SPECIFICATION SHEET
Outline 6304/BL-43
6629/BL-54, 6630/BL-55.

12-8-54 clr
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.