JETEC TYPE DESIGNATION REGISTRATION FORM

ATR TUBE

Manufacturer's Designation: BL-61
JETEC Designation: 6455
Manufacturer: Bomac Laboratories, Inc.
Beverly, Massachusetts

May 7, 1957

GENERAL CHARACTERISTICS

The 6455 is a broad-band ATR tube designed to effectively decouple the transmitter from a common transmitting and receiving antenna during a non-transmitting period designed to operate over a frequency range 5340 to 5940 megacycles.

ELECTRICAL DATA—TYPICAL VALUES

Center Frequency 5640 Mc/sec
Loaded Q (max.) 7.0
Transmitter Peak Power (max.) 300 kw
Transmitter Peak Power (min.) 20 kw
Equivalent Conductance (max.) 0.1
Tuning Susceptance (max.) ±0.06
Arc Power Loss (max.) 0.8 db
  F=5640 Mc; po=20 kw;
  tp=1.0 usec; ppp=1000 pps
Recovery Time (max.) 25 µs
  F=5640, po=70 kw;
  tp=1.0 µsec; ppp=1000pps

MECHANICAL DATA—GENERAL

Mounting Position Any
Weight, approximately 6 ozs

ABSOLUTE MAXIMUM RATINGS

Transmitter Peak Power 300 kw
Transmitter Average Power 300 W

OUTLINE DRAWINGS

Outline per attached drawing dated 3-22-55
Tube Mount per attached drawing dated 6-15-56

from JETEC release #1931, May 20, 1957
Ref. | Dimensions
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A* | 2.624 ± 0.006
B* | 3.000 ± 0.015
C | 2.000 ± 0.010
D | 0.218 Max.
E* | 1.500 ± 0.015
F* | 1.000 ± 0.006
G** | 0.125 x 45°
H | #5 (.2055) Dr., 4 Holes
J* | 1.750 Max.
K* | 1.000 ± 0.010
L** | 0.218
M | 0.187
N | 0.030 Rad. Max.