The 1B50 is a tunable TR gas switching tube of the integral cavity type for the 6550 Mc range.

**Electrical Data - General**

- **Tuning Range**: 6000 to 7100 Mc
- **Leakage Power** (at 200 Kw): 60 mw max.
- **Insertion Loss** (at 6550 Mc): 1.5 db max.
- **Keep-Alive Interaction** (at 100 µAdc): 0.2 db max.
- **Recovery Time** (at 200 kw; 3 db down): 12 µsec. max.
- **Loaded Q** (at zero keep-alive current): 350 max.
- **Frequency Change with Temperature** (0 to 100ºC): 0 to -40 Mc
- **Keep-Alive Voltage Drop** (at 100 µAdc): 300 to 450 Vdc
- **Keep-Alive Ignition Time**: 5.0 sec. max.
- **Keep-Alive Starting Voltage**: -750 Vdc max.

**Mechanical Data - General**

- **Number of Keep-Alive Electrodes**: One
- **Net Weight (approximate)**: 13 oz.
- **Mounting Position**: Any
- **Mounting Dimensions**: (See Note 1)

**Ratings**

- **Maximum Transmitter Peak Power**: 300 Kw
- **Keep-Alive Supply Voltage (open circuit)**: -750 to -1000 Vdc
- **Keep-Alive Current**: 100 to 200 µAdc
- **Ambient Temperature Range**: -40 to +100 ºC

*total power averaged over pulse

(Note 1) Between std. R.F. choke
Flanges in 3/4" x 1 1/2" O.D.
-.064" W.T. Std. Waveguide