

APPLICATION NOTES

NOTE: All voltages referred to the cathode.

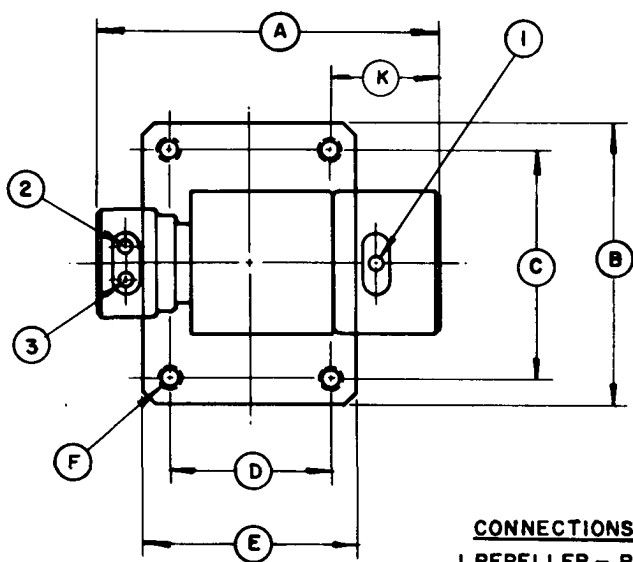
COOLING: At sea level this tube will not require forced air cooling when operated at its maximum rated dissipation with an ambient temperature less than 125° Centigrade. The waveguide flange connection will normally provide the required heat-sink for conduction cooling. If an insulator is used between the tube and waveguide for DC isolation, forced air cooling may be required to maintain the ceramic-to-metal seal temperatures below the maximum rating of 150° Centigrade.

RESONATOR: The resonator of the X1095 is integral with the body of the klystron. For this reason, it is often convenient to operate the resonator at chassis potential, with the repeller and cathode at appropriate negative potentials.

CATHODE: The heater voltage should be maintained within $\pm 5\%$ of the rated value of 6.3 volts if variations in performance are to be minimized and the best tube life obtained.

The heater and cathode of the X1095 are internally connected. When the resonator of this tube is operated at chassis potential, the heater transformer must be insulated for the cathode-to-resonator voltage.

VSWR OF LOAD: To obtain the typical performance listed, the load VSWR should be less than 1.2:1.

[illegible]

CONNECTIONS

1. REPELLER - RED
2. HEATER - WHITE
3. HEATER CATHODE - BLACK

