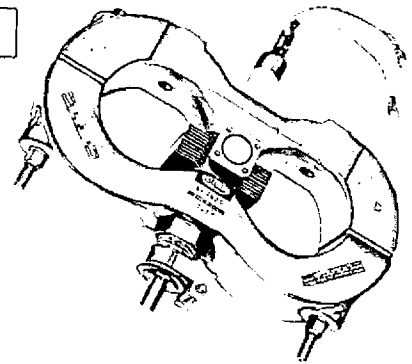


The technical information on this data sheet is of a proprietary nature and is furnished as a customer service for private use only.

RK7630/QK702**PRELIMINARY****DATA SHEET***Excellence in Electronics*

GENERAL DESCRIPTION

The RK7630/QK702 is a tunable, medium power, pulsed type oscillator capable of delivering 70 kilowatts of peak power. The RK7630/QK702 is tunable within the frequency region of 15,840 - 16,160 megacycles. The magnetron is an integral magnet, waveguide output type tube requiring forced air cooling and is designed for coupling to standard RG 91 U waveguide (0.702 x 0.391).

Mechanical Data

Mounting Position	Cathode Vertical
Net Weight	26 Lbs.
Cooling	Forced Air
Output Pressurization	Required (25 psia Min.)

Electrical Data

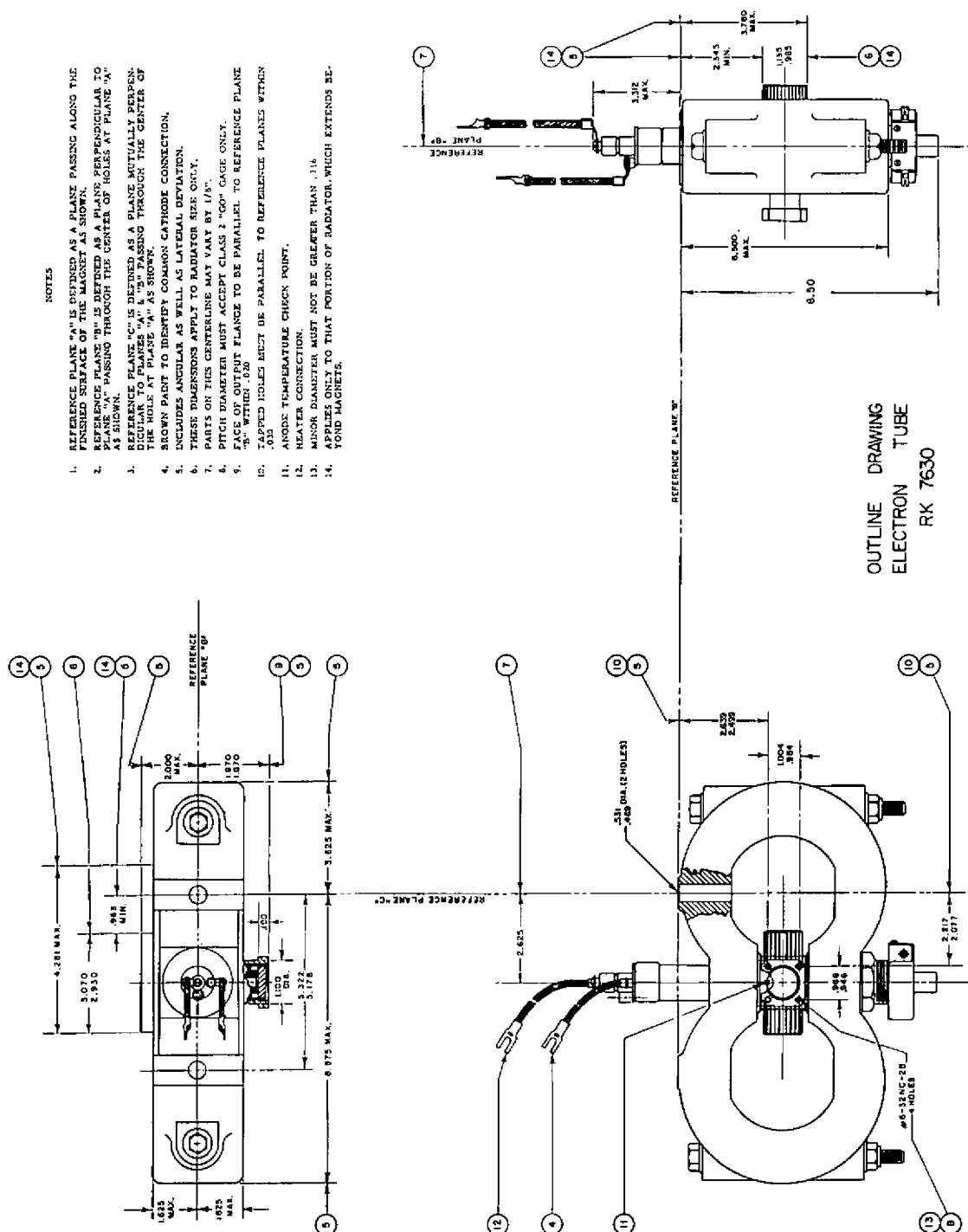
Heater Voltage - Preheat/180 sec	4.8 Volts
Heater Current at 4.8 Volts	10.8 - 13.2 Amperes
Voltage Rise Time	.09 to .14 usec
R. F. Bandwidth	2.0/tpc Max.
Maximum V.S.W.R.	1.5

Typical Operation

Pulse Duration	0.25 usec
Duty Cycle	.00215
Average Anode Current	26 Milliamperes
Average Power Output	150 Watts (Min.)
Peak Anode Voltage	24 KV

Reliable operation and maximum magnetron life can be achieved only if the overall radar transmitter is designed with the magnetron characteristics clearly in mind. This preliminary Data Sheet is intended as an introduction to this type magnetron and not as an absolute guide to users. Inquiries on this magnetron and its application should be directed to the Applications Engineering Department at Raytheon Company, Waltham, Massachusetts.

The specifications for this tube have not been finalized. The tube is being manufactured in limited quantities and is available for engineering analysis purposes only. This engineering information and/or delivery of sample tubes do not imply availability of tubes with the same electrical and/or mechanical characteristics. Changes in ratings and/or dimensions may be made at our discretion as deemed advisable by manufacturing experience or other considerations. For current information concerning this tube contact the nearest Microwave and Power Tube Regional Sales Representative.



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RX 7630