

SECURITY CLASSIFICATION Confidential

Types 4J70, 4J71, 4J72 and 4J73

Magnetrons

GENERAL CHARACTERISTICSElectrical

Cathode	<u>Unipotential, Coated</u>
Heater Voltage	<u>16.0 Volts</u>
Heater Current	<u>2.8 - 3.4 Amperes</u>
Mechanical Tuning Range	
4J70	<u>3710 - 3540 Megacycles</u>
4J71	<u>3560 - 3390 Megacycles</u>
4J72	<u>3410 - 3240 Megacycles</u>
4J73	<u>3260 - 3090 Megacycles</u>
Magnetic Field Strength	<u>2500 Gauss</u>
Power Output at .0006 Duty Cycle and 70 Amperes	<u>350 Watts</u>

Mechanical

Dimensions	<u>See Outline</u>
Mounting Position	<u>Any</u>
Cooling	<u>Forced Air</u>

MAXIMUM RATINGS

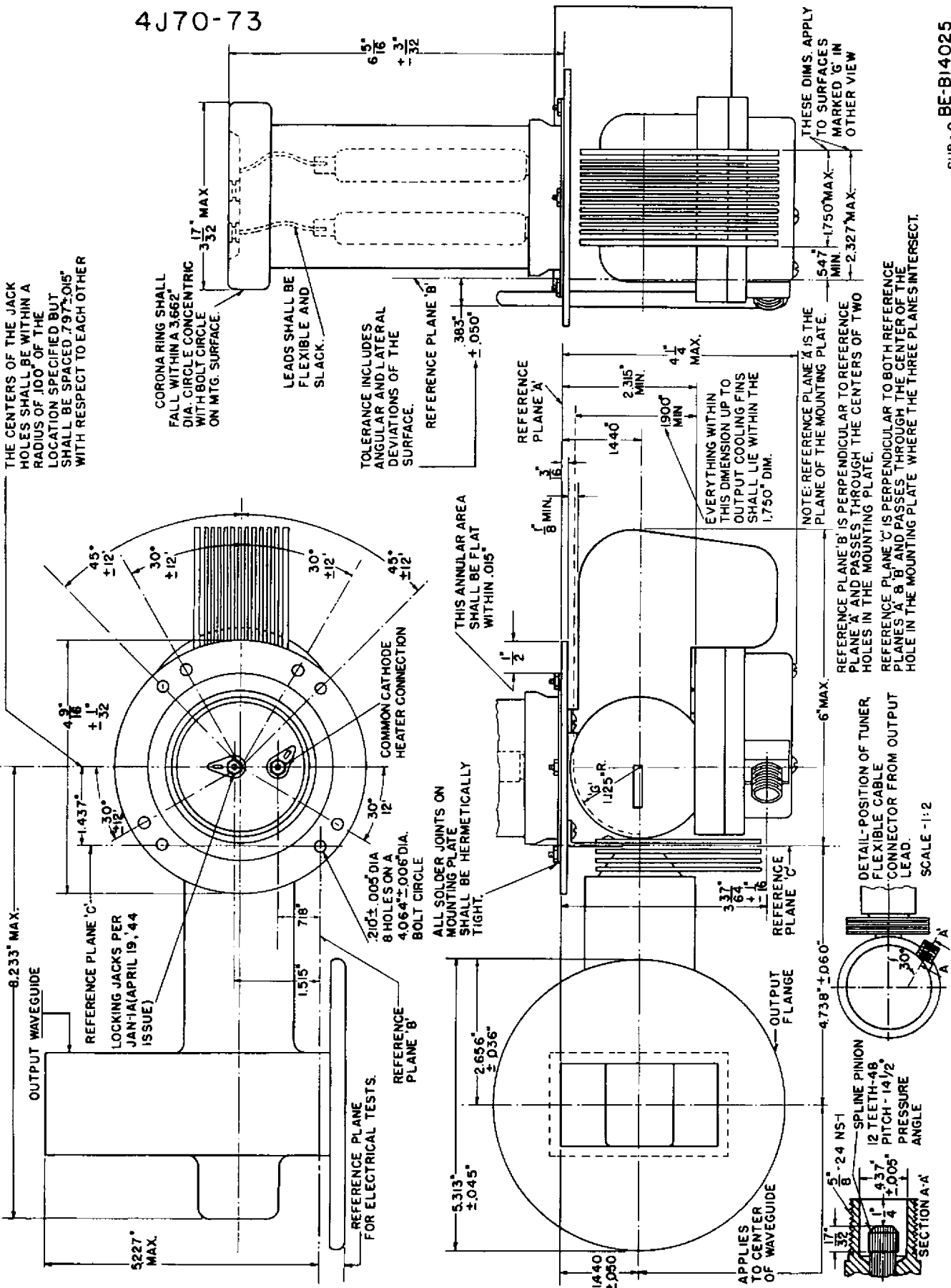
Peak Anode Voltage	<u>30 Kilovolts</u>
Peak Anode Current	<u>70 Amperes</u>
Anode Dissipation	<u>700 Watts</u>
Duty Cycle *	<u>.001</u>
Anode Temperature	<u>125° C</u>
Pulse Duration	<u>2.5 Microseconds</u>

* The tube shall not be operated longer than 5 microseconds in any 100 microsecond interval.

Bloomfield, New Jersey

December 5, 1945

4J70-73



THE CENTERS OF THE JACK HOLES SHALL BE WITHIN A RADIUS OF .100 OF THE LOCATION SPECIFIED BUT SHALL BE SPACED $.797 \pm .015$ WITH RESPECT TO EACH OTHER

CORONA RING SHALL FALL WITHIN 3.662" DIA. CIRCLE CONCENTRIC WITH BOLT CIRCLE ON MFG. SURFACE

LEADS SHALL BE FLEXIBLE AND SLACK

TOLERANCE INCLUDES ANGULAR AND LATERAL DEVIATIONS OF THE SURFACE.

REFERENCE PLANE 'B'

REFERENCE PLANE 'A'

NOTE: REFERENCE PLANE 'A' IS THE PLANE OF THE MOUNTING PLATE.

REFERENCE PLANE 'B' IS PERPENDICULAR TO REFERENCE PLANE 'A' AND PASSES THROUGH THE CENTERS OF TWO HOLES IN THE MOUNTING PLATE.

REFERENCE PLANE 'C' IS PERPENDICULAR TO BOTH REFERENCE PLANES 'A' & 'B' AND PASSES THROUGH THE CENTER OF THE HOLE IN THE MOUNTING PLATE WHERE THE THREE PLANES INTERSECT.

DETAIL - POSITION OF TUNER FLEXIBLE CABLE CONNECTOR FROM OUTPUT LEAD.

SCALE - 1:2

SUB - 0 BE-B14025