



SECURITY CLASSIFICATION Confidential

Types 4J74, 4J75, 4J76 and 4J77

Tunable Magnetrons

GENERAL CHARACTERISTICS

Electrical

Cathode	<u>Unipotential, Coated</u>
Heater Voltage	<u>16.0 Volts</u>
Heater Current	<u>2.8 - 3.4 Amperes</u>
Mechanical Tuning Range	
4J74	<u>3110 - 2990 Megacycles</u>
4J75	<u>3010 - 2890 Megacycles</u>
4J76	<u>2910 - 2790 Megacycles</u>
4J77	<u>2810 - 2690 Megacycles</u>
Magnetic Field Strength	<u>2700 Gauss</u>
Power Output at .0006 Duty Cycle and 70 Amperes	<u>450 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

4J74-77

COMMON CATHODE HEATER CONNECTION

