



SECURITY CLASSIFICATION Confidential

Type 2K51, 2K52, 2K53

Secondary Emission Klystron

GENERAL CHARACTERISTICS

Electrical

Cathode	<u>Unipotential Coated</u>
Heater Voltage	<u>6.3 Volts</u>
Heater Current	<u>1.4 Amperes</u>
Mechanical Tuning Range	
2K51	<u>2700 - 3300 Megacycles</u>
2K52	<u>2900 - 3700 Megacycles</u>
2K53	<u>3200 - 4000 Megacycles</u>
Electronic Tuning Range	<u>40 Megacycles</u>
Resonator Voltage Range	<u>1500 - 3000 Volts</u>
Secondary Cathode Voltage Range	
Positive with Respect to Cathode	<u>0 - 500 Volts</u>
Grid Voltage Range	<u>0 - 150 Volts</u>
Power Output	<u>5 - 30 Watts</u>

Mechanical

Dimensions	<u>See Outline</u>
Mounting Position	<u>Any</u>
Mechanical Tuning	<u>Yes</u>

MAXIMUM RATINGS

Power Input	<u>700 Watts</u>
Dissipation *	<u>700 Watts</u>
Resonator Voltage	<u>3000 Volts</u>
Resonator Current	<u>300 Milliamps.</u>

* Forced air cooling must be used if power input exceeds 50 watts.

Bloomfield, New Jersey

December 5, 1945

2K51, 52, 53

