

WESTINGHOUSE

February 25, 1948

X-RAY TUBE DATA SHEETElectron Tube Type 5535GENERAL

Electrical Data

Filament Current Range
Filament Voltage Range

<u>3.5 to 5.5</u>	Amperes
<u>3.5 to 10</u>	Volts

Mechanical Data

Type of Cooling
Focal Spot Size
Projected length
Width
Base Description
Maximum Overall Dimensions
Outline Drawing Number
Mounting Position

<u>Air</u>	
<u>2.1 and 4.2</u>	mm
<u>2.1 and 4.2</u>	mm
<u>Special 3-pin</u>	
<u>14-19/32 x 3-13/16</u>	Inches
<u>5535</u>	
<u>Any</u>	

MAXIMUM RATINGSHeat Capacity
Continuous Rating

<u>150,000</u>	*Heat units
<u>12,000</u>	Heat units per minute

Maximum Fluoroscopic Rating at a Loading
of 425 (KV x MA)**

<u>10</u>	Minutes
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	<u>Full Wave</u>	<u>Half Wave</u>	<u>Self-rectified</u>		<u>Units</u>
			<u>Inverse</u>	<u>Useful</u>	
Peak plate voltage	100	100	100	90	Kilovolts
Value of D-C average current at maximum voltage rating	68	45	-	34	Milliamperes.
Allowable time of operation under above conditions	1/20	1/20	-	1/20	Second

Table of short-time ratings which are given as the product of peak kv useful times
D-C average milliamperes.

<u>Time</u>	<u>2.1 mm spot size</u>			<u>4.2 mm spot size</u>		
	<u>Full Wave</u>	<u>Half Wave</u>	<u>Self-rectified</u>	<u>Full Wave</u>	<u>Half Wave</u>	<u>Self-rectified</u>
0.1 Sec.	6200	4225	2940	18250	13000	8700
1 "	4800	3400	2575	11800	9600	6900
5 "	3920	2875	2310	8100	7300	5650
30 "	2800	2190	1910	3400	3400	3400

*Heat units are defined as the product of the peak voltage in kilovolts, D-C average
current in milliamperes, and the exposure time in seconds, and is proportional to energy.

** KV x MA is defined as the product of Peak KV times D-C average MA and is propor-
tional to power.

RMA TYPE 5535

