

February 25, 1948

WESTINGHOUSEX-RAY TUBE DATA SHEETElectron Tube Type 5535GENERAL

Electrical Data

Filament Current Range
Filament Voltage Range

3.5 to 5.5	Amperes
3.5 to 10	Volts

Mechanical Data

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

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

MAXIMUM RATINGSHeat Capacity
Continuous Rating

150,000	*Heat units
12,000	Heat units per minute

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

10	Minutes
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	Full Wave	Half Wave	Self-rectified		Units
			Inverse	Useful	
Peak plate voltage	100	100	100	90	Kilovolts
Value of D-C average current at maximum voltage rating	66	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.

Time	2.1 mm spot size			4.2 mm spot size		
	Full Wave	Half Wave	Self-rectified	Full Wave	Half Wave	Self-rectified
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.

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RMA TYPE 5535

