WESTINGHOUSE

February 25, 1948

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Second

X-RAY TUBE DATA SHEET

Electron Tube Type 5539

GENERAL

operation under

above conditions

Electrical Data			_			
Filament Current		3.5 to 5.5	Amperes			
Filament Voltage		Volts				
Mechanical Data						
Type of Cooling		Air				
Focal Spot Size						
Projected 1	2,1 and 4.2 mm					
Vidth	2,1 and 4,2 mm					
Base Description				pecial 3-pi		
Maximum Overall 1		3/32 x 3-1				
Outline Drawing		5539	<u> </u>			
Mounting Position		Any				
MOUNTAING TOBISTON	•		*****			
MAXIMUM RATINGS						
Heat Capacity				270,000	*Heat units	
Continuous Rating			15,000 Heat units			
					per minute	
Maximum Fluorescopic Rating at a Loading						
of $425 (KV \times MA)^{**}$	20		<u> </u>			
			Self-re	ctified		
	Full Wave	Half Vave	Inverse	Useful	Units	
Peak plate voltage	100	100	100	90	Kilovolts	
Value of D_C average						
current at maximum						
voltage rating	68	45	•	334	Milliamps.	
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Allowable time of						

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

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2.1 mm spot sises			4.2 mm spot sises			
Time	Juli Wave	Half Waye	Self-rectified	Full Wave	Talf Wave	Self-rectified
0.1 Sec.	6200	4225	2940	18250	13000	8700
1 "	H500	31400	2575	11800	9600	6900
5 •	3920	2875	2310	8400	7300	5650
30 *	3020	2250	1970	6000	4600	4000

^{*}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 proportional to power.

RMA TYPES 5539, 5540

