

February 25, 1948

WESTINGHOUSEX-RAY TUBE DATA SHEETElectron Tube Type 5540GENERAL

Electrical Data

Filament Current Range	<u>3.5 to 5.5</u>	Amperes
Filament Voltage Range	<u>3.5 to 10</u>	Volts

Mechanical Data

Type of Cooling	<u>Air</u>	
Focal Spot Size		
Projected length	<u>1.5 and 3.0</u>	mm
Width	<u>1.5 and 3.0</u>	mm
Base Description	<u>Special 3-pin</u>	
Maximum Overall Dimensions	<u>15-23/32 x 3-13/16</u>	Inches
Outline Drawing Number	<u>5540</u>	
Mounting Position	<u>Any</u>	

MAXIMUM RATINGS

Heat Capacity	<u>270,000</u>	*Heat units
Continuous Rating	<u>15,000</u>	Heat units per minute
Maximum Fluoroscopic Rating at a Loading of 425 (KV x MA)**	<u>20</u>	Minutes

	<u>Full Wave</u>	<u>Half Wave</u>	<u>Self-rectified Inverse</u>	<u>Useful</u>	<u>Units</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.

Time	<u>1.5 mm spot size</u>			<u>3.0 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.	3500	2600	1700	10800	7400	4950
1 Sec.	2800	2000	1520	7600	5900	4150
5 Sec.	2300	1800	1400	5900	4800	3600
30 Sec.	1700	1500	1250	4450	3640	2950

*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.

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RMA TYPES 5539, 5540

