

February 25, 1948

WESTINGHOUSEL-RAY TUBE DATA SHEETElectron Tube Type 553EGENERALElectrical 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>4.2</u>	mm
<u>4.2</u>	mm
<u>62.2</u>	
<u>16-3/8 x 3-13/16</u>	Inches
<u>553E</u>	
<u>Any</u>	

MAXIMUM RATINGS

Heat Capacity
 Continuous Rating

<u>270,000</u>	*Heat units
<u>15,000</u>	Heat units per minute

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

<u>20</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	Milliamps.
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>Full Wave</u>	<u>Half Wave</u>	<u>Self-rectified</u>
0.1 Sec.	18250	13000	8700
1 "	11800	9600	6900
5 "	8400	7300	5650
30 "	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.

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RMA TYPES 5536, 5537, 5538

