

WESTINGHOUSE

RMA Release 640

X-RAY TUBE DATA SHEET

February 25, 1948

Electron Tube Type 5536

GENERAL

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>2.1</u>	mm
Width	<u>2.1</u>	mm
Base Description	<u>G2-2</u>	
Maximum Overall Dimensions	<u>16-3/8 x 3-13/16</u>	Inches
Outline Drawing Number	<u>5536</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</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.	6200	4225	2940
1 "	4800	3400	2575
5 "	3920	2875	2310
30 "	3020	2250	1970

\*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

