

6/23/48

WESTINGHOUSE

X-RAY TUBE DATA SHEET

Electron Tube Type 5521

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 Oil</u>	
Focal Spot Size		
Projected Length	<u>2.1</u>	mm.
Width	<u>2.1</u>	mm.
Base Description	<u>None</u>	
Maximum Overall Dimensions	<u>8-3/16 x 2-7/16</u>	Inches
Outline Drawing Number	<u>60011</u>	
Mounting Position	<u>Any</u>	

MAXIMUM RATINGS

Heat Capacity	<u>100,000</u>	*Heat Units
Continuous Rating	<u>30,000</u>	Heat Units Per Minute

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

Continuous to Heat
Capacity of Head

	<u>Full Wave</u>	<u>Half Wave</u>	<u>Self-Rectified Inverse</u>	<u>Self-Rectified Useful</u>	<u>Units</u>
Peak Plate Voltage	110	100	100	90	Kilovolts
Value of D-C average current at maximum voltage rating	50	44	-	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.	6100	4200	2950
1 "	4800	3375	2560
5 "	3900	2880	2300
30 "	2800	2150	1900

*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.

***Ratings are for 100 KV peak plate.



16. 18. 20. 22. 24. 26. 28. 30. 32. 34. 36. 38. 40. 42. 44. 46. 48. 50. 52. 54. 56. 58. 60. 62. 64. 66. 68. 70. 72. 74. 76. 78. 80. 82. 84. 86. 88. 90. 92. 94. 96. 98. 100.