

6/23/48

WESTINGHOUSE

X-RAY TUBE DATA SHEET

Electron Tube Type 5522

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>3.0</u>	mm.
Width	<u>3.0</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	98	79	-	19	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.	10800	7400	4950
1 "	7600	5900	4160
5 "	5900	4800	3600
30 "	3400	3300	2740

*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 voltage.



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.