

July 15, 1950

WESTINGHOUSE ELECTRIC CORPORATIONX-RAY TUBE DATA SHEET

Electron Tube Type 5602

GENERAL

Electrical Data

Filament current range	3.5 to 5.5	Amperes
Filament voltage range	3.5 to 10	Volts

Mechanical Data

Type of cooling	Oil	
Maximum oil temperature	200	°F
Focal Spot Sizes (Superimposed)		
Projected length	2.1 and 4.2	mm
Width	2.1 and 4.2	mm
Outline drawing number	5602	
Mounting position	Any	

MAXIMUM RATINGS

Heat capacity	150,000	*Heat units
Continuous rating	25,000	Heat units/minute
Maximum fluoroscopic rating at a loading of 425 (kv x ma)	Continuous	Minutes

	<u>Full Wave</u>	<u>Half Wave</u>	<u>Self-rectified</u> <u>Inverse Useful</u>	<u>Units</u>
Peak plate voltage	125	100	100 90	Kilovolts
Value of dc average current at maximum voltage rating for 1/20 second for 2.1 mm spot	39	44	- 34	Milliamps
Value of dc average current at maximum voltage rating for 1/20 second for 4.2 mm spot	125	149	- 103	Milliamps.

Table of short-time ratings which are given as the product of peak kv useful times dc average milliamperes.

Time	2.1 mm spot size			4.2 mm spot size		
	125 KVP Full Wave	100 KVP Half Wave	90 KVP Useful Self-rectified	125 KVP Full Wave	100 KVP Half Wave	90 KVP Useful Self-rectified
0.1 Sec.	4580	4170	2940	13700	13000	8740
1 Sec.	3620	3410	2570	8900	9650	6870
5 Sec.	2950	2875	2310	6090	7300	5560
30 Sec.	2140	2200	1925	2550	3400	3400

*Heat units are defined as the product of the peak voltage in kilovolts, dc 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 dc average ma and is proportional to power.

WESTINGHOUSE ELECTRIC CORPORATION

X-RAY TUBE OUTLINES

TYPES 5599, 5600, 5601, & 5602

