

WESTINGHOUSE ELECTRIC CORPORATION

X-RAY TUBE DATA SHEET

Electron Tube Type 5599

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 Size		
Projected length	2.1	mm
Width	2.1	mm
Outline drawing number	5599	
Mounting position	Any	

MAXIMUM RATINGS

Heat capacity	150,000	*Heat units
Continuous rating	25,000	Heat units per minute

Maximum fluoroscopic rating at a loading  
of 425 (kv x ma)\*\*

	continuous		Self-rectified		Minutes
	<u>Full Wave</u>	<u>Half Wave</u>	<u>Inverse</u>	<u>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	39	44	-	34	Milliamps

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

Time	125 KV Peak	100 KV Peak	90 KVP Useful
	<u>Full Wave</u>	<u>Half Wave</u>	<u>Self-rectified</u>
0.1 Sec.	4580	4170	2940
1 "	3620	3410	2570
5 "	2950	2875	2310
30 "	2140	2200	1925

\*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.

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## X-RAY TUBE OUTLINES

### TYPES 5599, 5600, 5601, & 5602

