

4/20/49

WESTINGHOUSE  
X-RAY TUBE DATA SHEET  
ELECTRON TUBE TYPE 5749.

GENERALElectrical Data

Filament Current Range	<u>1.6 - 2.5</u>	Amps.
Filament Voltage Range	<u>4.2 - 6.5</u>	Volts

Mechanical Data

Type of Cooling	<u>Oil</u>	
Focal Spot Size		
Projected Length	<u>1.0</u>	mm.
Width	<u>1.0</u>	mm.
Maximum Overall Length	<u>5-21/32</u>	Inches
Outline Drawing Number	<u>60087D</u>	
Mounting Position	<u>Any</u>	

MAXIMUM RATINGS

Heat Capacity	<u>25,000</u>	*Heat Units
Continuous Rating	<u>21,000</u>	Heat Units Per Minute

Maximum Fluoroscopic Rating at a  
Loading of 350 (KV x MA)\*\*

Continuous to Heat  
Capacity of Heat

	<u>Self-Rectified Inverse</u>	<u>Self-Rectified Useful</u>	<u>Units</u>
Peak Plate Voltage	85	90	Kilovolts
Value of DC Average Current of Maximum Voltage Rating	-	19	Milliamperes
Allowable Time of Operation Under Above Conditions	-	1	Second

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

<u>Time</u>	<u>Self-Rectified</u>
1 Second	1050
3 Seconds	970
10 "	870
30 "	780
100 "	415

\* 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.

# RMA TYPE 5747,5748

