

4/29/49

WESTINGHOUSE
X-RAY TUBE DATA SHEET
ELECTRON TUBE TYPE 5746.

GENERAL

Electrical Data

Filament Current Range	<u>1.6 - 2.5</u>	Amps.
Filament Voltage Range	<u>2.4 - 3.5</u>	Volts

Mechanical Data

Type of Cooling	<u>Oil</u>	
Focal Spot Size	<u>1.0</u>	mm.
Projected Length	<u>1.0</u>	mm.
Width	<u>5</u>	Inches
Maximum Overall Length	<u>60088D</u>	
Outline Drawing Number	<u>Any</u>	
Mounting Position		

MAXIMUM RATINGS

Heat Capacity	<u>20,000</u>	*Heat Units
Continuous Rating	<u>15,000</u>	Heat Units Per Minute

Maximum Fluoroscopic Rating at a Loading of 550 (KV x MA)**	<u>1,000</u>	Seconds
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	Self-Rectified Inverse	Self-Rectified Useful	Units
Peak Plate Voltage	75	70	Kilovolts
Value of DC Average Current of Maximum Voltage Rating	-	15	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 "	710
100 "	525

* 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 5745, 5746

