

February 25, 1948

WESTINGHOUSEX-RAY TUBE DATA SHEETElectron Tube Type 5538GENERAL

Electrical Data

Filament Current Range
Filament Voltage Range3.5 to 5.5 Amperes
3.5 to 10 Volts

Mechanical Data

Type of Cooling
Focal Spot Size
Projected length
Width
Base Description
Maximum Overall Dimensions
Outline Drawing Number
Mounting PositionAir
4.2 mm
4.2 mm
62-2
16-3/8 x 3-13/16 Inches
5538
AnyMAXIMUM RATINGSHeat Capacity
Continuous Rating270,000 *Heat units
15,000 Heat units
per minuteMaximum Fluoroscopic Rating at a Loading
of 425 (KV x MA)**20 Minutes

	<u>Full Wave</u>	<u>Half Wave</u>	<u>Self-rectified</u> <u>Inverse Useful</u>	<u>Units</u>
Peak plate voltage	100	100	100 90	Kilovolts
Value of D-C average current at maximum voltage rating	68	45	- 34	Milliamperes
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.	18250	13000	8700
1 "	11800	9600	6900
5 "	8400	7300	5650
30 "	6000	4600	4000

*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 proportional
to power.

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RMA TYPES 5536, 5537, 5538

