

February 25, 1948

WESTINGHOUSEX-RAY TUBE DATA SHEETElectron Tube Type 5537GENERAL

## Electrical Data

Filament Current Range  
Filament Voltage Range

|                   |         |
|-------------------|---------|
| <u>3.5 to 5.5</u> | Amperes |
| <u>3.5 to 10</u>  | Volts   |

## Mechanical Data

Type of Cooling  
Focal Spot Size  
Projected length  
Width  
Base Description  
Maximum Overall Dimensions  
Outline Drawing Number  
Mounting Position

|                         |        |
|-------------------------|--------|
| <u>Air</u>              |        |
| <u>3.0</u>              | mm     |
| <u>3.0</u>              | mm     |
| <u>02-2</u>             |        |
| <u>16-3/8 x 3-13/16</u> | Inches |
| <u>5537</u>             |        |
| <u>Any</u>              |        |

MAXIMUM RATINGSHeat Capacity  
Continuous Rating

|                |                          |
|----------------|--------------------------|
| <u>270,000</u> | *Heat units              |
| <u>15,000</u>  | Heat units<br>per minute |

Maximum Fluoroscopic Rating at a Loading  
of 425 (KV x MA)\*\*

|           |         |
|-----------|---------|
| <u>20</u> | Minutes |
|-----------|---------|

|                                                              | <u>Full Wave</u> | <u>Half Wave</u> | <u>Self-rectified</u><br><u>Inverse Useful</u> | <u>Units</u> |
|--------------------------------------------------------------|------------------|------------------|------------------------------------------------|--------------|
| Peak plate voltage                                           | 100              | 100              | 100 90                                         | Kilovolts    |
| Value of D-C average<br>current at maximum<br>voltage rating | 68               | 45               | - 34                                           | Milliamps.   |
| Allowable time of<br>operation under<br>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.    | 10800            | 7400             | 4950                  |
| 1 "         | 7600             | 5900             | 4150                  |
| 5 "         | 5900             | 4800             | 3600                  |
| 30 "        | 4450             | 3640             | 2950                  |

\*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

