

July 15, 1950

## WESTINGHOUSE ELECTRIC CORPORATION

## Superficial Therapy X-Ray Tube Data

## Electron Tube Type 5711

The 5711 tube is an oil-cooled x-ray tube designed for superficial therapy service.

GENERAL

## Electrical Data

|                        |            |         |
|------------------------|------------|---------|
| Filament current range | 3.5 to 4.7 | Amperes |
| Filament voltage range | 3.0 to 6.0 | Volts   |

## Mechanical Data

|                        |            |         |
|------------------------|------------|---------|
| Type of cooling        | Forced oil |         |
| Focal spot size        |            |         |
| Target angle           | 45         | Degrees |
| Projected length       | 9.5        | mm      |
| Width                  | 3.5        | mm      |
| Outline drawing number | 5711       |         |
| Operating position     | Any        |         |

MAXIMUM RATINGS

|                                                                 |                                 |         |
|-----------------------------------------------------------------|---------------------------------|---------|
| Maximum filament current for continuous operation               | 4.5                             | Amperes |
| Minimum flow of cooling oil                                     | 1-1/2                           | gpm     |
| Maximum cooling oil temperature                                 | 122                             | °F      |
| Maximum voltage on full wave and two valve half wave generators | 120                             | KVP     |
| Maximum voltage on self-rectified generator,                    | 100 KVP Useful, 110 KVP Inverse |         |
| Continuous ratings in dc average milliamperes:                  |                                 |         |

| Maximum<br>Voltage | Ambient Temp.<br>to 80°F | Ambient Temp.<br>to 90°F | Ambient Temp.<br>to 100°F |
|--------------------|--------------------------|--------------------------|---------------------------|
| 120 KVP            | 15.0 ma                  | 12.5 ma                  | 10 ma                     |
| 110 KVP            | 16.4 ma                  | 13.5 ma                  | 11 ma                     |
| 100 KVP            | 18.0 ma                  | 15.0 ma                  | 12 ma                     |

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