WESTINGHOUSE ELECTRIC CORPORATION

K_RAY TUBE DATA SHEET

Electron Tube Type 5781

The 5781 tube is a removable insert x-ray tube designed for regular duty service.

GENERAL

Electrical Data					
Filament current range			3.5	to 5.5	Amperes
Filament voltage	range		3.5	Volts	
Mechanical Data					
Type of cooling				Air	
Focal spot size					
Projected le		1.5	ETT.		
Width				1.5	Hen
Outline drawing m	5781				
Mounting position			Any		
MAXIMUM RATINGS					
Heat Capacity			150,000		*Heat units
Continuous rating					Heat units
••					per minute
Maximum fluoroscopic	rating at a le	oeding			
of 425 (kv x ma)**			10 Minutes		
			Self-rectified		
	Full Wave	Half Wave	Inverse	Useful	Units
Peak plate voltage	100	100	100	90	Kilovolts
Value of dc average current at maximum voltage rating for					
1/20 second	37	24.5	-	19.5	Milliamps.
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Table of short-time ratings which are given as the product of peak ky useful times do average milliamperes.

Time	Full Wave	Half Wave	Self-rectified
0.1 Sec.	3480	2350	1700
1 "	2770	2025	1520
5 "	2270	1800	1400
30 #	1690	1500	1250

^{*}Heat units are defined as the product of the peak voltage in kilovolts, do average current in milliamperes, and the exposure time in seconds, and is proportional to energy.

^{**} Ev x ma is defined as the product of peak kv times do average ma and is proportional to power.

WESTINGHOUSE ELECTRIC CORPORATION X-RAY TUBE TUBE TYPE 5781

