from RMA release # 683, Aug. 2, 1948

6/23/48

WESTINGHOUSE

X-RAY TUBE DATA SHEET

Electron Tube Type 5519

GENERAL

Electrical Data		
Filament Current Range	3.5 to 5.5	Amperes
Filament Voltage Range	3.5 to 10	Volts
Mechanical Data		
Type of Cooling	Oil	
Focal Spot Size (Double Focus)		
Projected Length	2.1 and 4.2	mm
Width	2.1 and 4.2	mm
Base Description	None	
Maximum Overall Dimensions	8-3/16 x 2-7/16	Inches
Outline Drawing Number	60011	
Mounting Position	Any	

MAXIMUM RATINGS

Heat Capacity	100,000	*Heat Units
Continuous Rating	30,000	Heat Units Per Minute

Maximum Fluoroscopic Rating at a Loading of 425 (KV x MA)** — Continuous to Heat Capacity of Head

	Spot Size	Full Wave	Half Wave	Self-Rectified Inverse	Self-Rectified Useful	Units
Peak Plate Voltage	Both	110	100	100	90	Kilovolts
Value of d.c. Avg. Current at Maximum Voltage Rating	2.1	50	44	-	34	Milliamps.
	4.2	169	139	-	103	Milliamps.
Allowable Time of Operation Under Above Conditions	Both	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.

Time	2.1 mm. Spot Size #Full Wave	Half Wave	Self-Rectified	4.2 mm. Spot Size #Full Wave	Half Wave	Self-Rectified
0.1 Sec.	6100	4200	2950	18250	13000	8700
1 "	4800	3375	2560	11800	9600	6900
5 "	3900	2880	2300	8100	7300	5650
30 "	2800	2150	1900	3400	3400	3400

*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 proportiona to power.

Ratings are for 100 KV peak plate voltage.

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WESTINGHOUSE ELECTRIC CORPORATION
LAMP DIVISION
SPECIFICATIONS AND STANDARDS DEPT.

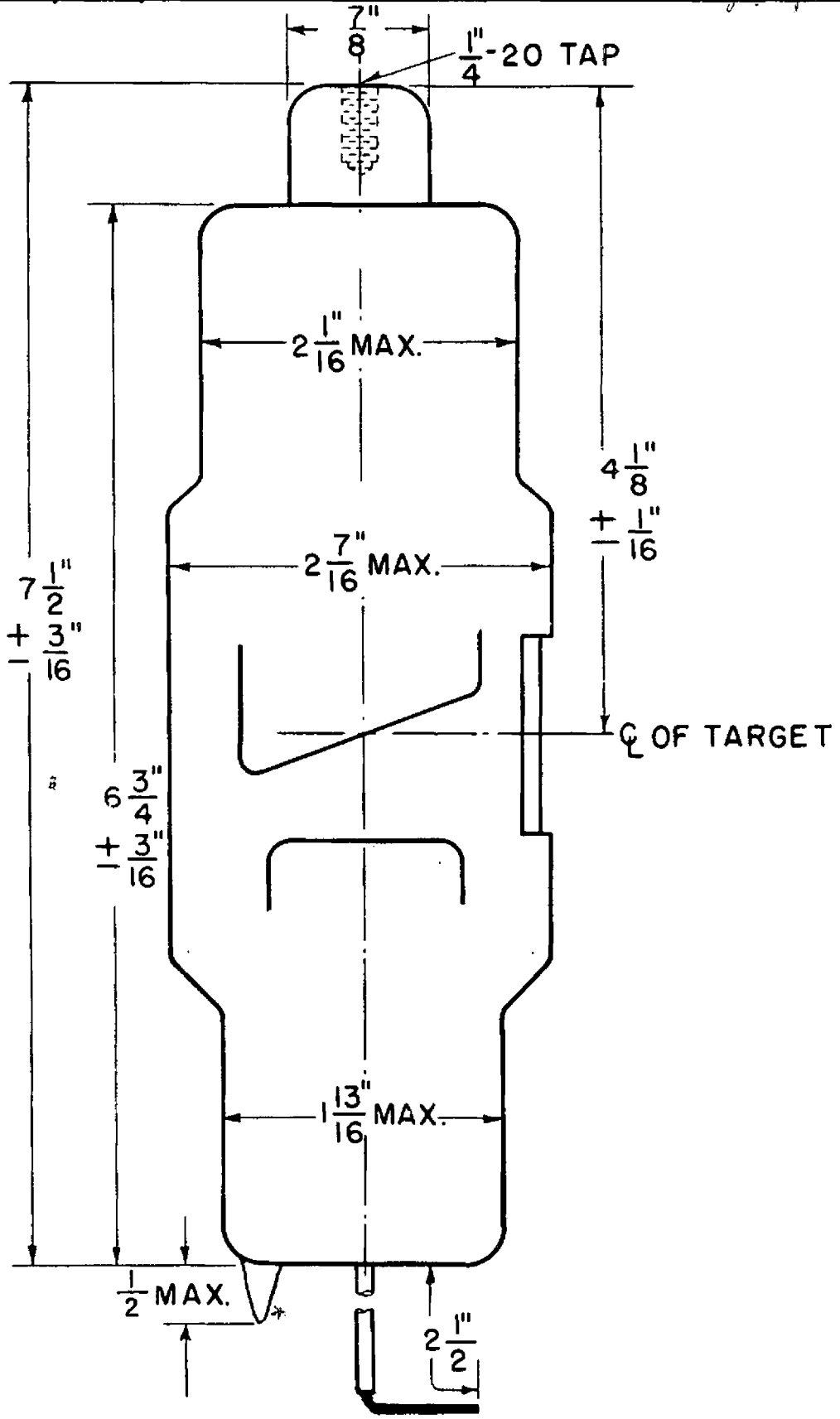
11

60011 C

COMMERCIAL OUTLINE

A | S. TAYLOR | 5/15/41

5519, 5521, 5522, 5523,



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