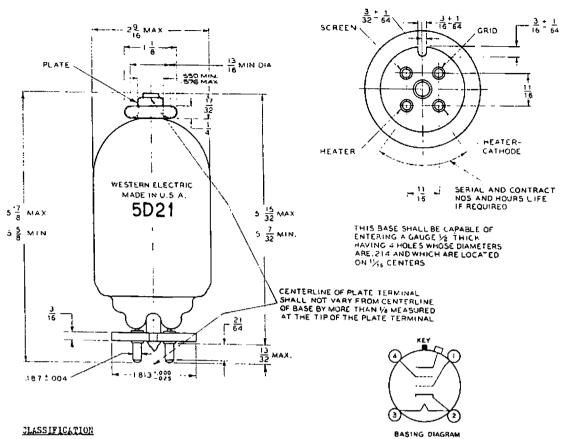
TECHNICAL INFORMATION WESTERN ELECTRIC 5D21 VACUUM TUBE



Special purpose tetrode with indirectly heated cathodes.

SOCKET AND MOUNTING

This tube employs a Western Electric 152k or similar type socket. The plate terminal is located at top of the bulb. There should be a free circulation of air around the bulb or some other method used to insure proper cooling.

The dimensions and arrangement of terminal connections are shown in the above drawing.

26.0 ± 10% volts a-c or d-c 2.10 asperes

HEATER RATING *Heater voltage

* *Required heating time		minutes
OPERATION - KAZINUM RATINGS		
***Direct plate voltage	20,000	volts
Direct screen voltage	1.250	volts
Average plate current	30	ailliapperes
****Feak plate current		anperes
Plate dissipation	60	watts
Screen dissipation	8	watts
Positive peak control-grid	300	volts
Direct control-grid bias	-1000	volta

INTER-ELECTRODE CAPACITANCES

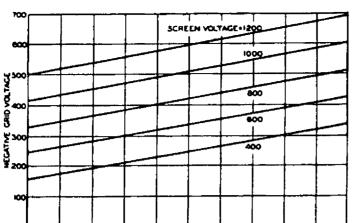
Nominal heater current

Nominal Values Control-grid to plate
Input - Control-grid to cathode and screen 1.2 դրք 35.0 paf Output- Plate to cathode and acreen 7.0 mmf

- * The heater is designed for operation from a 24 volt battery supply. The standard heater rating for such use is 25 volts. It must be recognized that under battery charging conditions the voltage may be as high as 28 volts. Longest life is to be obtained with the lowest heater voltage which will furnish the required cathode emission. Where a well regulated heater supply is available, the heater should be operated at 25 volts.
- ** In applications where the peak current drawn is less than the meximum rating the heating time may be reduced in proportion. In no case, however, can it be less than hyminute.
- ••• Due to the high plate voltage, this tube may spark internally a few times when the voltage is first applied. This is not an indication that the tube is defective.
- **** The product of the pulse duration in seconds and the pulse recurrence frequency in cycles per second shall not exceed 0.001. At higher duty cycles, the peak current must be reduced. In case the peak current drawn from the tube exceeds 5 emperes the tube shall not be operated longer than 5ps in any 100ps interval. For peak currents less than 5 emperes the plate rating of 60 watts shall determine the pulse interval.



MAXIMUM CUT-OFF CHARACTERISTICS



TUBES BELOW MAXIMUM LIMITS WILL CUT OFF AT LOWER NEGATIVE GRID VOLTAGES

PLATE KILOVOLTS

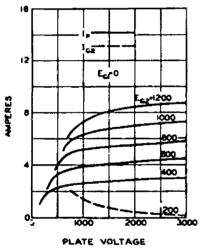
12

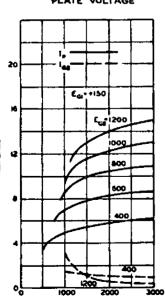
-2000 DATA TAKEN EG2 -0-3 800 1200

GRID VOLTAGE

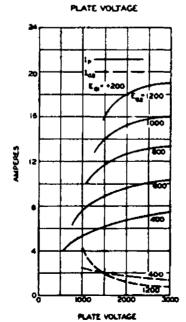
GRID CHARACTERISTICS

PLATE CHARACTERISTICS





1200 2000

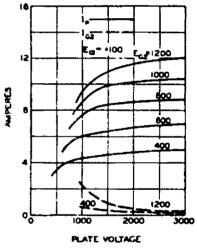


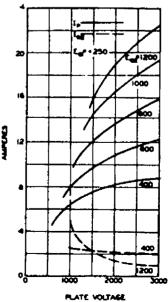
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2002

1000

3000





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PLATE VOLTAGE