

# RADIO MANUFACTURERS ASSOCIATION

SUITE 701-4 AMERICAN BUILDING  
1317 F STREET, N.W.  
WASHINGTON, D. C.



R.M.A. DATA BUREAU  
90 West Street  
New York, N. Y.

Registration No. 277

Date June 2, 1941

To  
Tube Engineers:

Registration has been made by the RMA  
Data Bureau of the vacuum tube type

5Y3-GT/5Y3G  
12SL7-GT

as defined by the characteristics and ratings given  
in the attached data on application of

RCA Manufacturing Company, Inc.  
Harrison, New Jersey

Respectfully yours,

RMA DATA BUREAU

By

RMA Release # 277



5Y3-GT/5Y3-G

**FULL-WAVE HIGH-VACUUM RECTIFIER**  
(TENTATIVE DATA)

*Ratings are to be interpreted according to RMA Standard M8-210 (Jan. 8, 1940 Rev. 11-40)*

FILAMENT VOLTAGE (A.C.)	5	Volts
FILAMENT CURRENT	2	Amperes
MAXIMUM OVERALL LENGTH	3-3/8"	
MAXIMUM SEATED HEIGHT	2-13/16"	
MAXIMUM DIAMETER	1-5/16"	
BULB	T-9	
BASE	Intermediate Shell Octal 5-Pin	
MOUNTING POSITION	Vertical *	

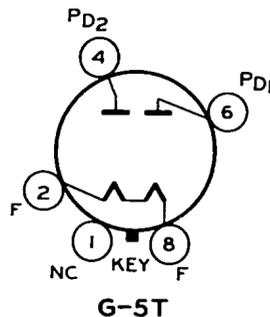
**Full-Wave Rectifier**

PEAK INVERSE VOLTAGE	1400	Volts
PEAK PLATE CURRENT PER PLATE	375	Milliamperes
<i>With Condenser-Input Filter:</i>		
A-C Plate Voltage per Plate (RMS)	350 max.	Volts
Total Effective Plate-Supply Impedance per Plate <sup>▲</sup>	50 min.	Ohms
D-C Output Current	125 max.	Milliamperes
<i>With Choke-Input Filter:</i>		
A-C Plate Voltage per Plate (RMS)	500 max.	Volts
Input-Choke Inductance	5 min.	Henries
D-C Output Current	125 max.	Milliamperes

\* Horizontal operation permitted if pins 2 and 8 are in a horizontal plane.  
▲ When a filter-input condenser larger than 40  $\mu$ f is used, it may be necessary to use more plate-supply impedance than the minimum value shown to limit the peak current to the rated value.

**Bottom View of Socket Connections**

Pin 1 - No Connection  
Pin 2 - Filament  
Pin 4 - Plate #2  
Pin 6 - Plate #1  
Pin 8 - Filament



June 2, 1941

Photolithographed in U.S.A.

RMA Release # 277



12SL7-GT

**TWIN-TRIODE AMPLIFIER**  
(TENTATIVE DATA)

*Ratings are to be interpreted according to RMA Standard M8-210 (Jan. 8, 1940 Rev. 11-40)*

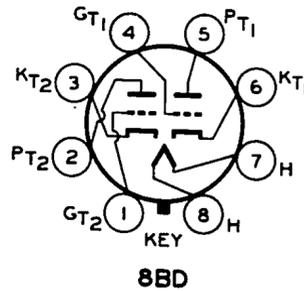
HEATER VOLTAGE (A.C. or D.C.)	12.6	Volts
HEATER CURRENT	0.15	Ampere
MAXIMUM OVERALL LENGTH	3-5/16"	
MAXIMUM SEATED HEIGHT	2-3/4"	
MAXIMUM DIAMETER	1-5/16"	
BULB	T-9	
BASE	Intermediate Shell	Octal 8-Pin
MOUNTING POSITION	Any	

**Amplifier - Each Unit**

PLATE VOLTAGE	250 max.	Volts
GRID VOLTAGE	0 min.	Volts
PLATE DISSIPATION	1 max.	Watt
<b>CHARACTERISTICS - Class A<sub>1</sub> Amplifier:</b>		
Plate Voltage	250	Volts
Grid Voltage	-2	Volts
Amplification Factor	70	
Plate Resistance (Approx.)	44000	Ohms
Transconductance	1600	Micromhos
Plate Current	2.3	Milliamperes

**Bottom View of Socket Connections**

- Pin 1 - Grid (Triode 2)
- Pin 2 - Plate (Triode 2)
- Pin 3 - Cathode (Triode 2)
- Pin 4 - Grid (Triode 1)
- Pin 5 - Plate (Triode 1)
- Pin 6 - Cathode (Triode 1)
- Pin 7 - Heater
- Pin 8 - Heater



# JOINT ELECTRON TUBE ENGINEERING COUNCIL



650 SALMON TOWER  
11 WEST FORTY-SECOND STREET  
NEW YORK 36, N. Y.  
TELEPHONE: LONGACRE 5-3450

Announcement  
of  
Electron Device Type Reregistration

Release No. 277A (Tentative)\*

January 16, 1956

The Joint Electron Tube Engineering Council announced the registration of the following JETEC tube type designation

5Y3GT

on June 2, 1941, in Release No. 272, under the sponsorship of the Radio Corp. of America, Harrison, New Jersey.

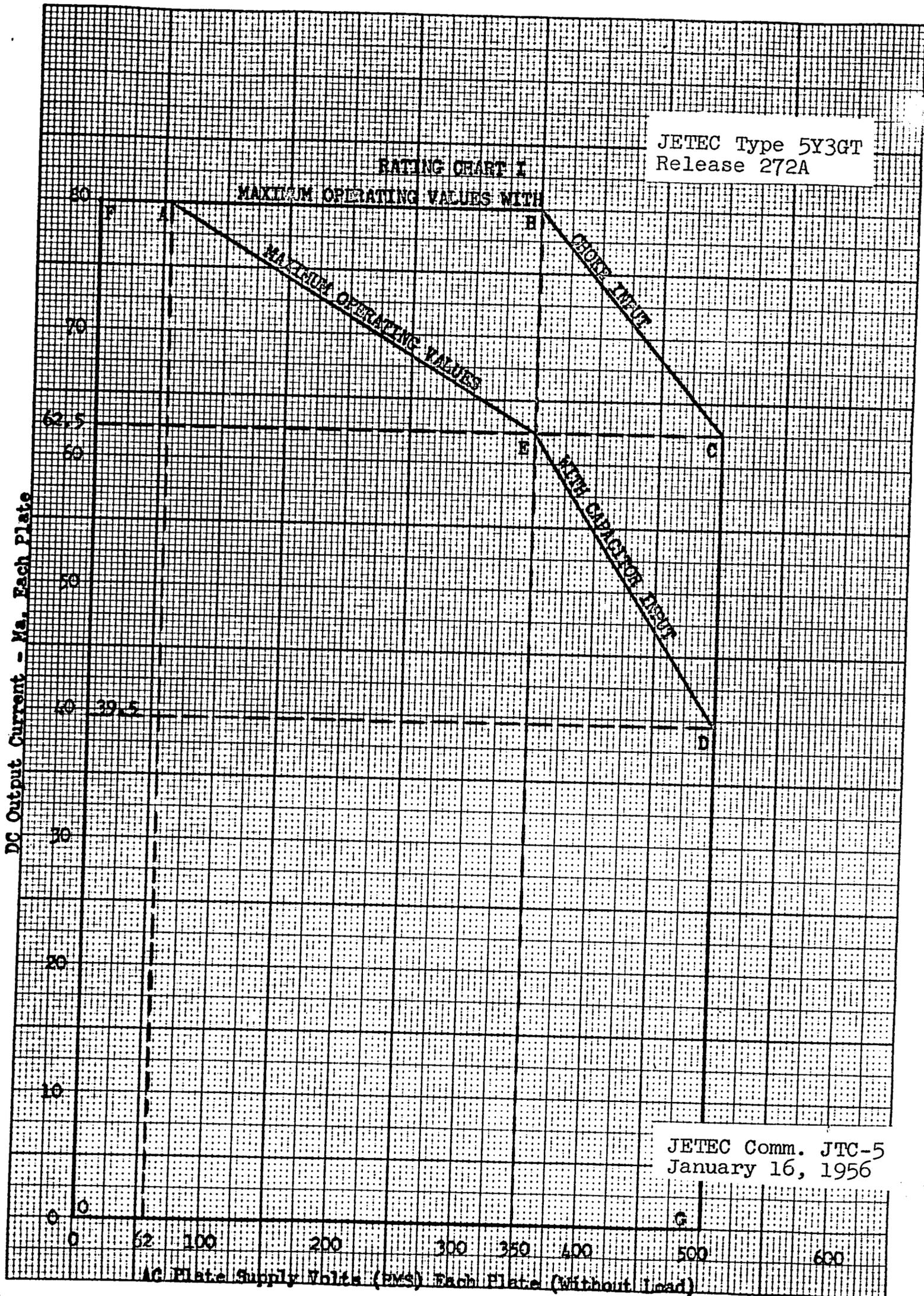
The attached material has been prepared by JTC-5 Committee on Receiving Tubes, in accordance with accepted procedures of the Joint Electron Tube Engineering Council. Upon expiration of the thirty day approval period, this data will supercede all previously registered specifications.

\*Unless valid objection to this reregistration is lodged with the RETMA Engineering Office prior to February 16, 1956, this reregistration will be made and this information will be considered "FINAL"  
WITHOUT FURTHER NOTICE!



JETEC Type 5Y3GT  
Release 272A

RATING CHART I



JETEC Comm. JTC-5  
January 16, 1956

JETEC Type 5Y3GT  
Release 27A

RATING CHART II  
Capacitor Input

Based on Steady-State Peak  
Plate Current Each Plate of  
440 Milliamperes

DC Output Current - Ma. Each Plate

AREA OF PERMISSIBLE OPERATION

0.35 0.4 0.5 0.6 0.7 0.8 0.9 1.0

RECTIFICATION EFFICIENCY

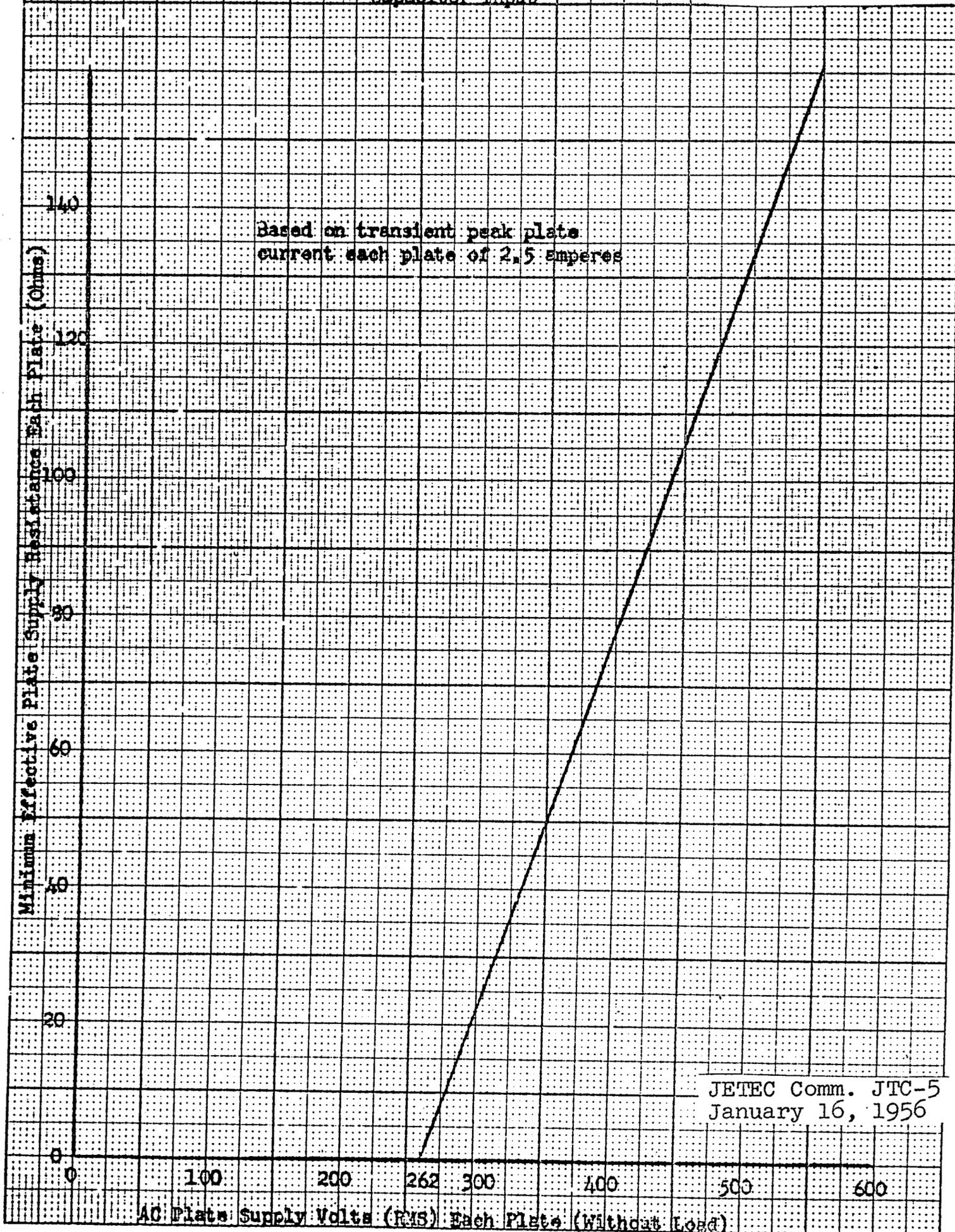
DC Output Voltage at Filter Input

Peak AC Input Voltage Each Plate (Without Load)

JETEC Comm. JTC-5  
January 16, 1956

RATING CHART III  
Capacitor Input

JETEC Type 5Y3GT  
Release 272A



JETEC Comm. JTC-5  
January 16, 1956

# JOINT ELECTRON DEVICE ENGINEERING COUNCIL



2260 SALMON TOWER  
11 WEST FORTY-SECOND STREET  
NEW YORK 36, N. Y.  
TELEPHONE: LONGACRE 5-0717

## Announcement of Electron Device Type Reregistration

Release No. 277B (Tentative)\*

May 2, 1960

The Joint Electron Device Engineering Council announced the registration of the following electron device designation

12SL7GT

on June 2, 1941, Release No. 272, under the sponsorship of Radio Corporation of America, Harrison, New Jersey.

The sponsor now proposes reregistration based on the following data:

<u>ITEM</u>	<u>AS REGISTERED</u>	<u>AS PROPOSED</u>
<u>Under Amplifier</u>		
Each Unit		
PLATE VOLTAGE	250 max.	300 max. volts
PEAK HEATER-CATHODE VOLTAGE:		
Heater negative with respect to cathode	none	90 max. volts
Heater positive with respect to cathode	none	90 max. volts

\*Unless valid objection to this reregistration is lodged with the EIA Standards Laboratory prior to June 2, 1960, this reregistration will be made and this information will be considered "FINAL" WITHOUT FURTHER NOTICE!

JOINT ELECTRON DEVICE ENGINEERING COUNCILS  
JEDEC Electron Tube Council                      JEDEC Solid State Products Council



Announcement

2001 Eye Street, NW  
Washington, DC 20006

of

Electron Device Type Reregistration

Release No. 277C (final)

July 10, 1973

The Joint Electron Device Engineering Council announced the proposed reregistration of the following electron device designation

12SL7GT

on May 29, 1973.

This announcement is notice that the proposed reregistration covered by Release No. 277C, dated May 29, 1973, may be considered "FINAL".

**JOINT ELECTRON DEVICE ENGINEERING COUNCILS**  
**JEDEC Electron Tube Council                      JEDEC Solid State Products Council**



Announcement

2001 Eye Street, NW  
Washington, DC 20006

of

Electron Device Type Reregistration

Release No. 277C (tentative\*)

May 29, 1973

The Joint Electron Device Engineering Council announced the registration of the following electron device designation

12SL7GT

on June 2, 1941, in Release No. 277, under the sponsorship of RCA Corp.

The sponsor now proposes reregistration as follows:

<u>ITEM</u>	<u>AS REGISTERED</u>	<u>AS PROPOSED</u>
Base	Intermediate Shell Octal 8-Pin	B8-6, B8-58, or B8-251

\*Unless valid written objection to this reregistration is lodged with the EIA Type Administration Office at the above address prior to June 29, 1973 this reregistration will be made and this information will be considered "FINAL".

JOINT ELECTRON DEVICE ENGINEERING COUNCILS  
JEDEC Electron Tube Council                      JEDEC Solid State Products Council



2001 Eye Street, NW  
Washington, DC 20006

Announcement

of

Electron Device Type Reregistration

Release No. 277C (tentative\*)

May 29, 1973

The Joint Electron Device Engineering Council announced the registration of the following electron device designation

12SL7GT

on June 2, 1941, in Release No. 277, under the sponsorship of RCA Corp.

The sponsor now proposes reregistration as follows:

<u>ITEM</u>	<u>AS REGISTERED</u>	<u>AS PROPOSED</u>
Base	Intermediate Shell Octal 8-Pin	B8-6, B8-58, or B8-251

\*Unless valid written objection to this reregistration is lodged with the EIA Type Administration Office at the above address prior to June 29, 1973 this reregistration will be made and this information will be considered "FINAL".