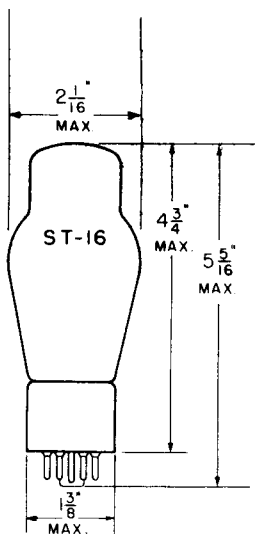


## TUNG-SOL

## FULL-WAVE HIGH-VACUUM RECTIFIER



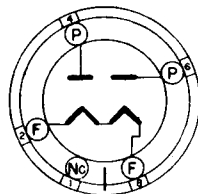
GLASS BULB

COATED FILAMENT

HEATER

5.0 VOLTS 2.0 AMPERES  
AC

VERTICAL MOUNTING POSITION

HORIZONTAL OPERATION IS  
PERMISSIBLE IF PINS 1 AND  
4 ARE IN A VERTICAL PLANE.

BOTTOM VIEW

MEDIUM SHELL 5-PIN  
OCTAL MICANOL BASE

THE 5R4GY IS DESIGNED FOR RECTIFIER USE IN EQUIPMENT REQUIRING A HIGH PEAK INVERSE VOLTAGE RATING. SATISFACTORY OPERATION OF THIS TUBE TYPE UNDER CONDITIONS FALLING WITHIN AREA 1 ON CURVE NO. 1 MAY BE OBTAINED WITHOUT FILAMENT PREHEATING. FILAMENT PREHEATING FOR 10 SECONDS BEFORE PLATE VOLTAGE IS APPLIED IS RECOMMENDED FOR SATISFACTORY OPERATION UNDER CONDITIONS FALLING WITHIN AREA 2 ON THE SAME CURVE.

## RATINGS

INTERPRETED ACCORDING TO RMA STANDARD M8-210

## FULL-WAVE RECTIFIER

FILAMENT VOLTAGE (AC)	5.0	5.0	5.0	VOLTS
FILAMENT CURRENT	2.0	2.0	2.0	AMPS.
MAX. PEAK INVERSE PLATE VOLTAGE (NO LOAD)	2100	2400	2800	VOLTS
MAX. PEAK PLATE CURRENT PER PLATE	650	650	650	MA.
DC OUTPUT CURRENT:				
WITH CONDENSER INPUT TO FILTER	250	175	150	MA.
WITH CHOKE INPUT TO FILTER	250	250 <sup>A</sup>	175 <sup>B</sup>	MA.

A FOR INPUT CHOKE FILTER=5 HENRIES MINIMUM.

B FOR INPUT CHOKE FILTER=10 HENRIES MINIMUM.

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## TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

## FULL-WAVE RECTIFIER

AC PLATE-TO-PLATE SUPPLY VOLTAGE (RMS)	CONDENSER- INPUT FILTER		CHOKE- INPUT FILTER		VOLTS
	FULL LOAD	NO LOAD	1500	1700	
	1400	1800	1500	1900	
	1500	2000	1700	2000	
FILTER INPUT CONDENSER	4	4	-	-	$\mu$ f
TOTAL EFFECTIVE PLATE-SUPPLY IMPEDANCE PER PLATE <sup>C</sup>	125	575	-	-	OHMS
FILTER INPUT CHOKE	-	-	5	10	H.
DC OUTPUT CURRENT	250	250	250	175	MA.
DC OUTPUT VOLTAGE (APPROX.) (AT INPUT TO FILTER)	700	700	550	750	VOLTS
VOLTAGE REGULATION (APPROX.) (HALF-LOAD TO FULL-LOAD CURRENT)	90	110	40	60	VOLTS

<sup>C</sup> PEAK PLATE CURRENT WILL BE LIMITED TO MAXIMUM RATED VALUE FOR THE GIVEN CONDITIONS AND VALUES. FOR A FILTER-INPUT CONDENSER GREATER THAN 4  $\mu$ f, MORE PLATE-SUPPLY IMPEDANCE MAY BE REQUIRED TO LIMIT THE PEAK PLATE CURRENT TO THE RATED VALUE.

AREA 1: Filament and plate voltage may be applied simultaneously.

AREA 2: Filament should be permitted to reach operating temperature before applying plate voltage. This takes approximately 10 seconds.

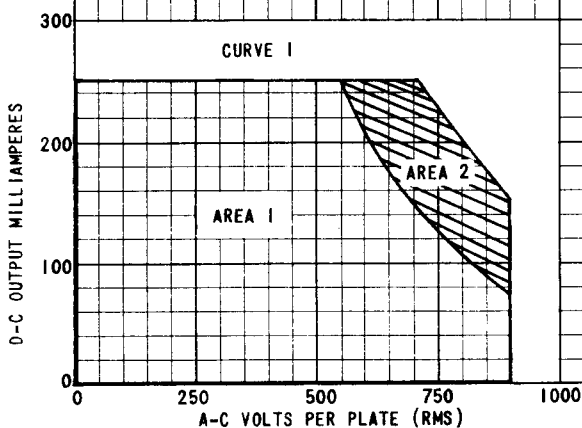


PLATE  
1600  
OCT. 15,  
1945

