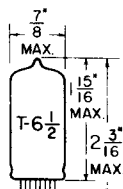


## TUNG-SOL

## DOUBLE TRIODE

MINIATURE TYPE



GLASS BULB

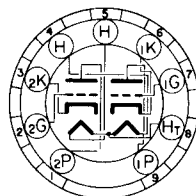
COATED UNIPOTENTIAL CATHODE

HEATER

**SERIES**  
12.6 VOLTS  
450 MA.

**PARALLEL**  
6.3 VOLTS  
900 MA.

AC OR DC



BOTTOM VIEW

SMALL BUTTON  
9 PIN BASE

FOR 12.6 VOLT OPERATION APPLY HEATER VOLTAGE BETWEEN PINS #4 AND #5. FOR 6.3 VOLT OPERATION APPLY HEATER VOLTAGE BETWEEN PIN #8 AND PINS #4 AND #5 CONNECTED TOGETHER.

ANY MOUNTING POSITION

FOR HORIZONTAL OPERATION IT IS RECOMMENDED THAT PINS #1 AND #4 LIE IN A VERTICAL PLANE.

THE 5687 IS A GENERAL PURPOSE MEDIUM- $\mu$  DOUBLE TRIODE USING THE 9-PIN BUTTON ALL-GLASS CONSTRUCTION. EACH TRIODE IS ELECTRICALLY INDEPENDENT ALTHOUGH THE TWO HEATERS HAVE A COMMON CONNECTION. THE TUBE IS CHARACTERIZED BY HIGH PERVEANCE AND HIGH EMISSION CAPABILITIES.

## DIRECT INTERELECTRODE CAPACITANCES - EACH UNIT

WITH NO EXTERNAL SHIELD

GRID TO PLATE: (G TO P)	3.1	$\mu$ f
GRID TO CATHODE: (G TO K)	4	$\mu$ f
PLATE TO CATHODE: (P TO K)	0.45	$\mu$ f
HEATER TO CATHODE: (H TO K)	9	$\mu$ f
PLATE TO PLATE: (1P TO 2P) APPROX.	0.95	$\mu$ f
GRID TO GRID: (1G TO 2G) APPROX.	0.025	$\mu$ f

## RATINGS

INTERPRETED ACCORDING TO RMA STANDARD M8-210

HEATER VOLTAGE ( $\pm 10\%$ )	12.6	6.3	VOLTS
MAXIMUM HEATER-CATHODE VOLTAGE		90	VOLTS
MAXIMUM PLATE VOLTAGE		300	VOLTS
MAXIMUM INVERSE PLATE VOLTAGE		1000	VOLTS
MAXIMUM PLATE DISSIPATION (EACH UNIT)		4.2	WATTS
MAXIMUM TOTAL PLATE DISSIPATION (BOTH UNITS)		7.5	WATTS
MAXIMUM BULB TEMPERATURE (AT ANY PART OF ENVELOPE)		220°	C
MAXIMUM DC GRID CURRENT (EACH UNIT)		6	MA.
MAXIMUM EXTERNAL GRID CIRCUIT RESISTANCE (EACH UNIT)		1	MEG.

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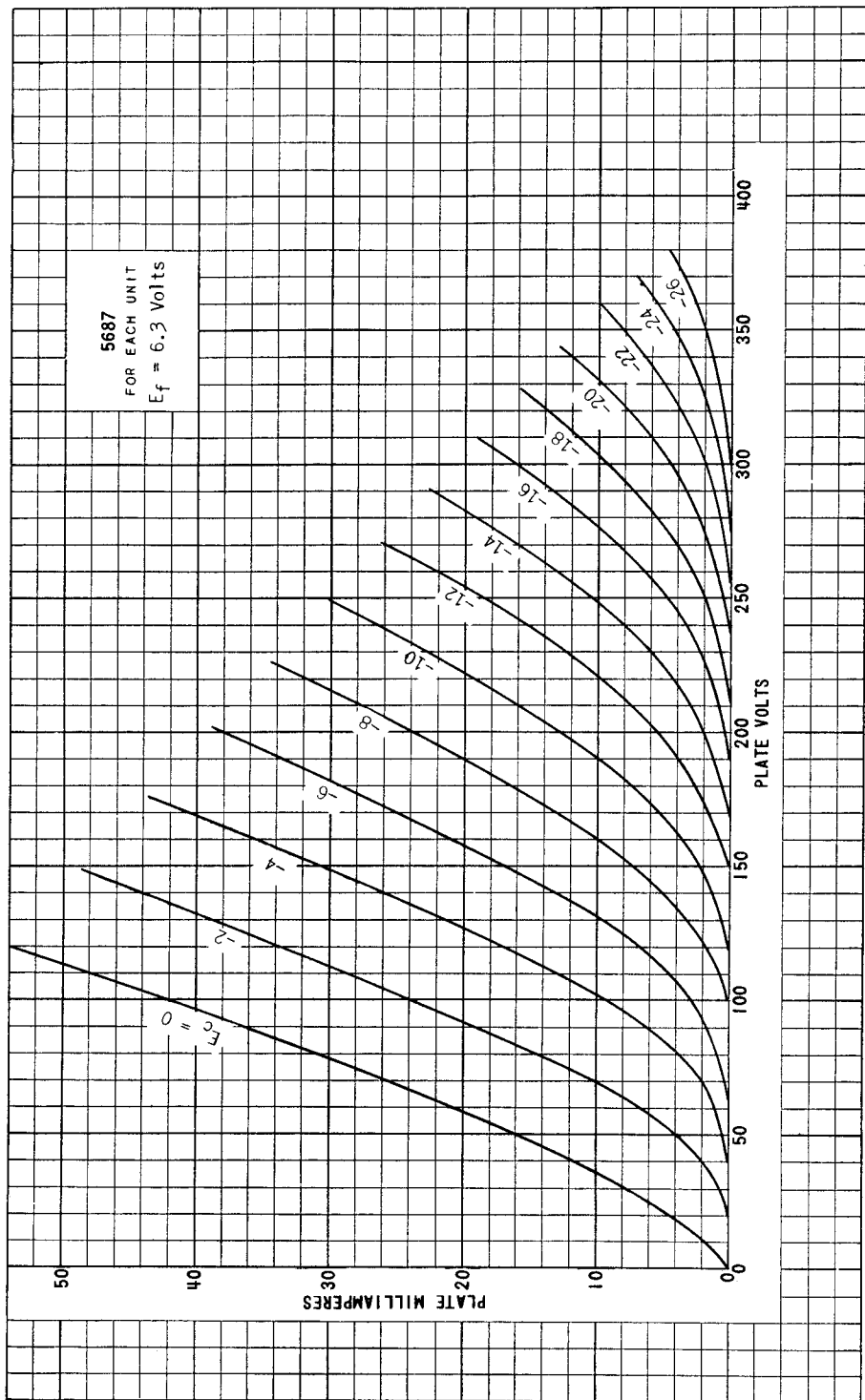
## TUNG-SOL

CONTINUED FROM PRECEDING PAGE

## TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A<sub>1</sub> AMPLIFIER - EACH UNIT

HEATER VOLTAGE		12.6	6.3		VOLTS
HEATER CURRENT		450	900		MA.
PLATE VOLTAGE	120	180	250		VOLTS
GRID VOLTAGE	-2	-7	-12.5		VOLTS
PLATE CURRENT	34	23	16		MA.
PLATE RESISTANCE	2 000	2 750	4 000		OHMS
TRANSCONDUCTANCE	10 000	6 400	4 100		μMHOS
AMPLIFICATION FACTOR	20	17.5	16.5		
GRID VOLTAGE (APPROX.) FOR I <sub>b</sub> = 100 μA	-10	-15	-21		VOLTS



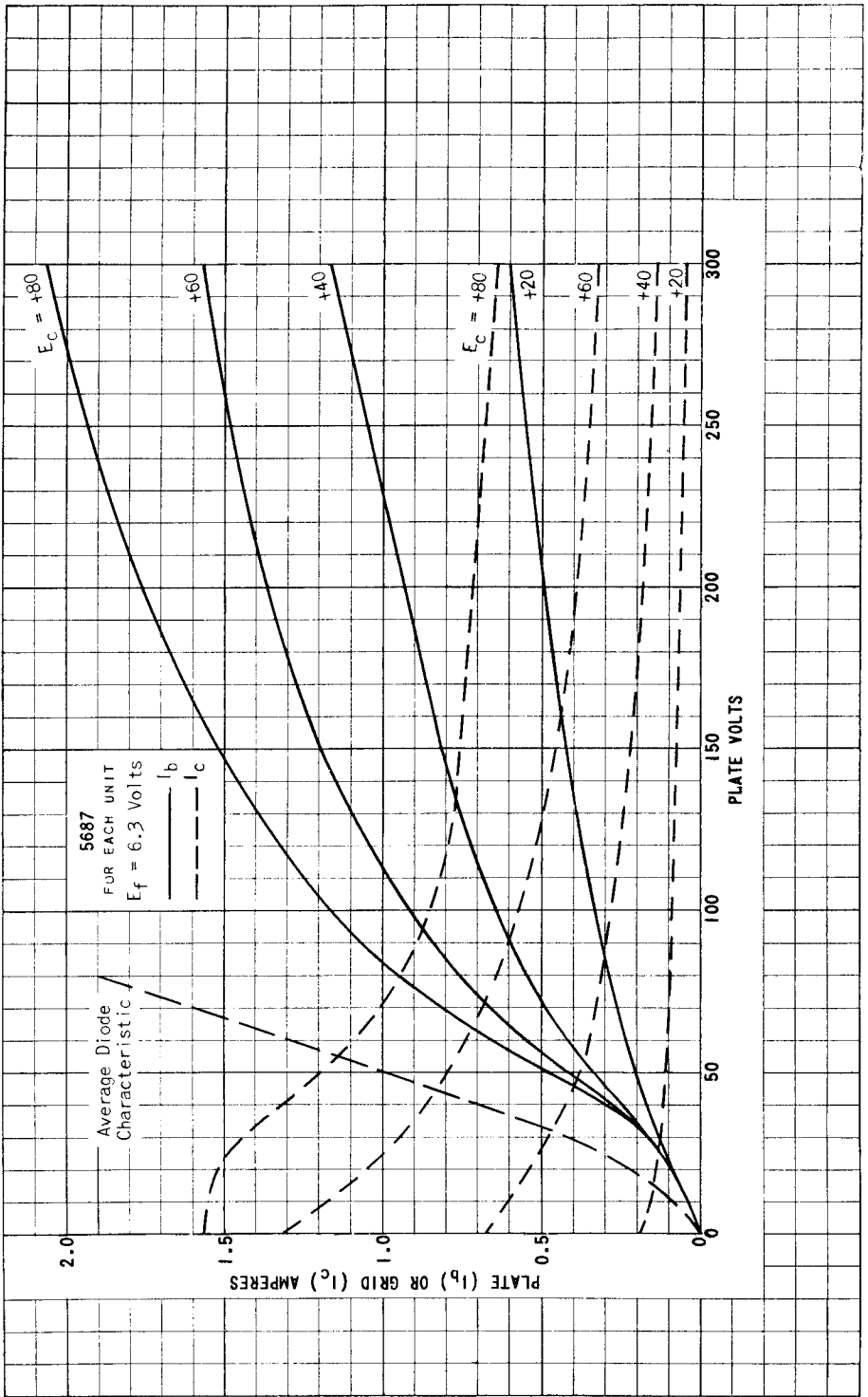


PLATE  
 1979  
 JAN. 22  
 1948

