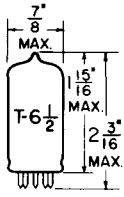
TUNG-SOL

DOUBLE TRIODE

MINIATURE TYPE

COATED UNIPOTENTIAL CATHODE

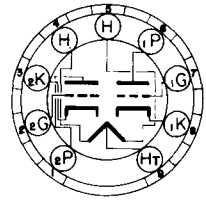
HEATER



GLASS BULB

SERIES	PARALLEL
12.6 VOLTS	6.3 VOLTS
150 MA.	300 MA.

AC OR DC



BOTTOM VIEW
SMALL BUTTON
9 PIN BASE
9A

FOR 12.6 VOLT OPERATION APPLY HEATER VOLTAGE BETWEEN PINS #4 AND #5. FOR 6.3 VOLT OPERATION APPLY HEATER VOLTAGE BETWEEN PIN #9 AND PINS #4 AND #5 CONNECTED TOGETHER.

WHEN OPERATING FROM AN AC HEATER SUPPLY, DO NOT USE THE 12.6 VOLT CONNECTION IF LOW-HUM CAPABILITIES ARE TO BE REALIZED.

ANY MOUNTING POSITION

THE 12AY7 COMBINES TWO INDEPENDENT MEDIUM-MU INDIRECTLY HEATED CATHODE TYPE TRIODES IN THE SMALL 9 PIN BUTTON MINIATURE CONSTRUCTION. IT IS INTENDED FOR USE IN HIGH GAIN AUDIO AMPLIFIER SERVICE WHERE PARTICULAR ATTENTION IS PAID TO MICROPHONICS, HUM, AND OTHER SOURCES OF INTERNAL NOISE.

DIRECT INTERELECTRODE CAPACITANCES - APPROX.

WITH NO EXTERNAL SHIELD

	EACH UNIT	
GRID TO PLATE: (G TO P)	1.3	μμf
INPUT: G TO (H+K)	1.3	μμf
OUTPUT: P TO (H+K)	0.6	μμf

RATINGS

INTERPRETED ACCORDING TO DESIGN CENTER SYSTEM

EACH TRIODE UNIT

HEATER VOLTAGE	12.6	6.3	VOLTS
MAXIMUM DC HEATER-CATHODE VOLTAGE	90		VOLTS
MAXIMUM PLATE DISSIPATION	1.5		WATTS
MAXIMUM CATHODE CURRENT	10		MA.

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A AMPLIFIER

	EACH TRIODE UNIT		
HEATER VOLTAGE	12.6	6.3	VOLTS
HEATER CURRENT	150	300	MA.
PLATE VOLTAGE	250		VOLTS
GRID VOLTAGE	-4		VOLTS
PLATE CURRENT	3		MA.
TRANSCONDUCTANCE	1 750		μMHOS
AMPLIFICATION FACTOR	44		
PLATE RESISTANCE (APPROX.)	25 000		OHMS

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TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

LOW LEVEL AMPLIFIER SERVICE

	EACH TRIODE SECTION	
HEATER VOLTAGE[A]	6.3	VOLTS
HEATER CURRENT	300	MA.
HEATER SUPPLY VOLTAGE	150	VOLTS
PLATE LOAD RESISTOR	20 000	OHMS
CATHODE RESISTOR	2 700	OHMS
CATHODE CAPACITOR	40	µf
GRID RESISTOR	0.1	MEGOHM
VOLTAGE GAIN	12.5	

[A] PIN NUMBER 9 CONNECTED TO NEGATIVE B SUPPLY.

→ INDICATES A CHANGE OR ADDITION

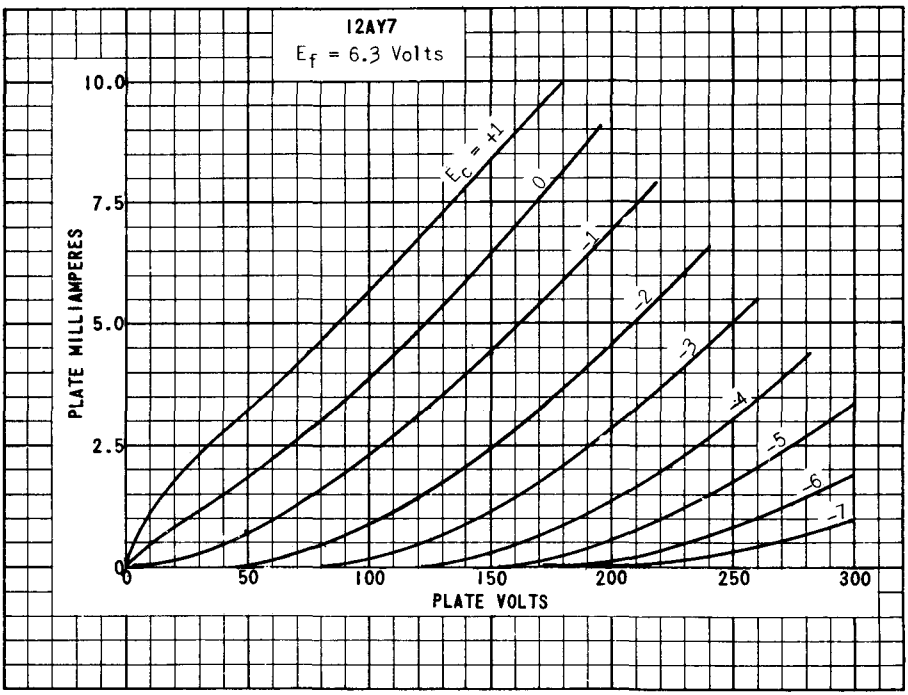

PLATE 2578
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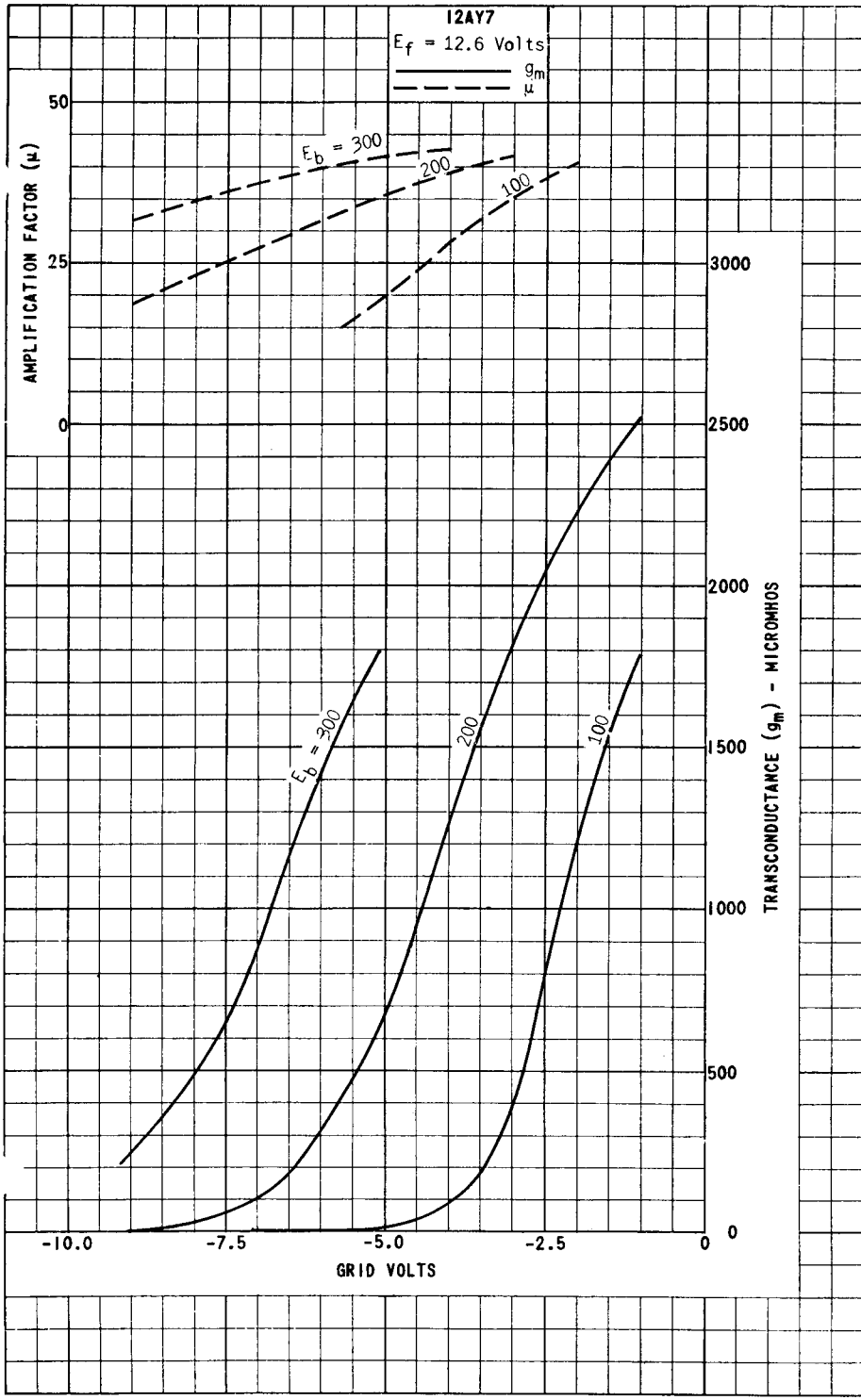

PLATE 2170
APR. 1, 1949

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