TUNG-SOL

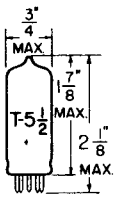
DOUBLE-DIODE TRIODE

MINIATURE TYPE

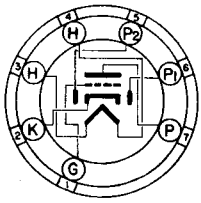
COATED UNIPOTENTIAL CATHODE

HEATER
6.3 VOLTS 300 MA.
AC OR DC

ANY MOUNTING POSITION



GLASS BULB



BOTTOM VIEW
MINIATURE BUTTON
7 PIN BASE

THE 6AV6 COMBINES A HIGH-MU TRIODE AND TWO INDEPENDENT DIODE UNITS IN THE 7-PIN MINIATURE CONSTRUCTION. IT PERMITS A SINGLE TUBE TO FUNCTION AS DETECTOR, AVC RECTIFIER, AND AUDIO AMPLIFIER. COUPLING BETWEEN THE DIODE AND TRIODE SECTIONS IS MINIMIZED BY THE USE OF INTERNAL SHIELDING.

RATINGS

INTERPRETED ACCORDING TO RMA STANDARD M8-210

FILAMENT VOLTAGE	6.3	VOLTS
MAXIMUM HEATER-CATHODE VOLTAGE	90	VOLTS
MAXIMUM PLATE VOLTAGE	300	VOLTS
MAXIMUM DIODE CURRENT EACH PLATE FOR CONTINUOUS OPERATION	1.0	MA.

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

TRIODE UNIT - CLASS A_1 AMPLIFIER

FILAMENT VOLTAGE	6.3	6.3	VOLTS
FILAMENT CURRENT	300	300	MA.
PLATE VOLTAGE	100	250	VOLTS
GRID VOLTAGE	-1	-2	VOLTS
PLATE CURRENT	0.5	1.2	MA.
PLATE RESISTANCE	80 000	62 500	OHMS
TRANSCONDUCTANCE	1 250	1 600	µMHOS
AMPLIFICATION FACTOR	100	100	

DIODE UNITS - TWO

THE DIODE UNITS ARE INDEPENDENT OF THE TRIODE UNIT EXCEPT FOR THE COMMON CATHODE SLEEVE.

DIODE BIASING OF THE TRIODE UNIT IS NOT SUITABLE.

SIMILIAR TYPE REFERENCE: Ratings and characteristics somewhat similiar to 6AT6 except for the use of more thorough shielding of the diode units from the triode.

CONTINUED ON FOLLOWING PAGE

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PLATE 1959
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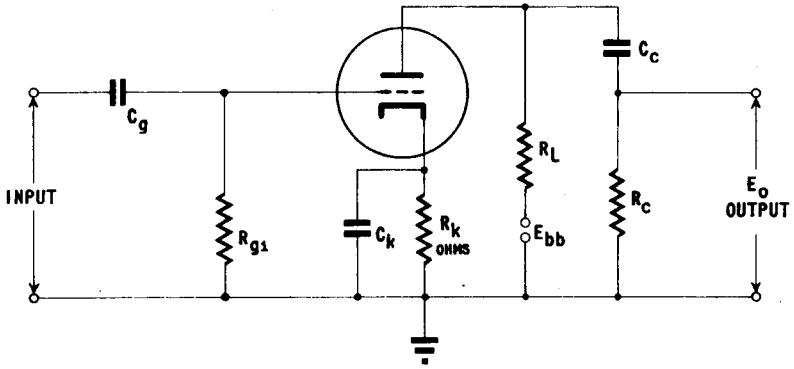
RESISTANCE COUPLED AMPLIFIER

R_L MEG.	R_c MEG.	E_{bb} = 90 VOLTS			E_{bb} = 180 VOLTS			E_{bb} = 300 VOLTS		
		R_k	GAIN	E_o	R_k	GAIN	E_o	R_k	GAIN	E_o
0.1	0.22	4700	35[A]	4	2000	47	18	1500	52	40
0.22	0.47	7400	45[B]	6	3500	59	24	2800	65	49
0.47	1.0	13000	52[C]	8	6700	66	28	5200	73	54

E_o IS RMS OUTPUT AT GRID CURRENT POINT.
GAIN MEASURED AT 5.0 VOLTS RMS OUTPUT EXCEPT AS INDICATED.

[A] OUTPUT VOLTAGE OF 2 VOLTS RMS.
[B] OUTPUT VOLTAGE OF 3 VOLTS RMS.
[C] OUTPUT VOLTAGE OF 4 VOLTS RMS.



NOTE: COUPLING CAPACITORS C_g AND C_c SHOULD BE SELECTED TO GIVE DESIRED FREQUENCY RESPONSE. R_k SHOULD BE ADEQUATELY BY-PASSED BY CAPACITOR C_k.

PLATE 1960
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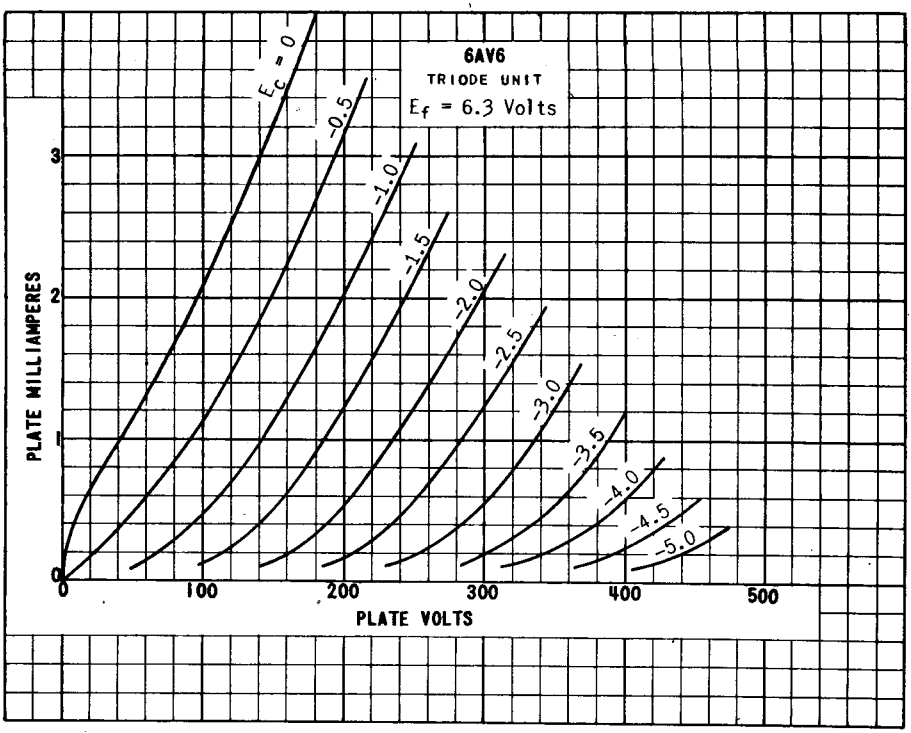

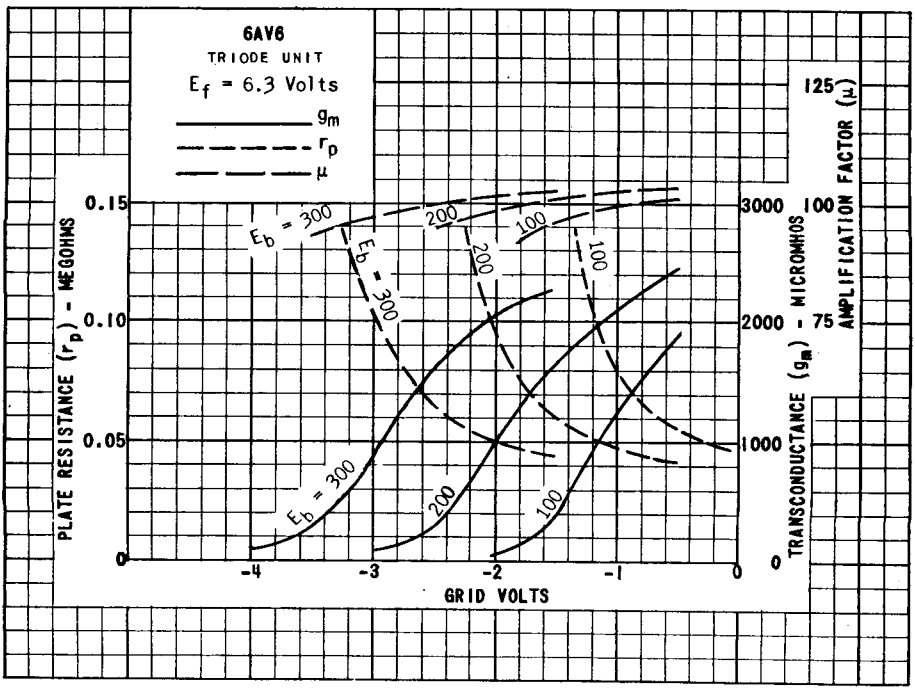

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PLATE
1961
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1948

6AV6

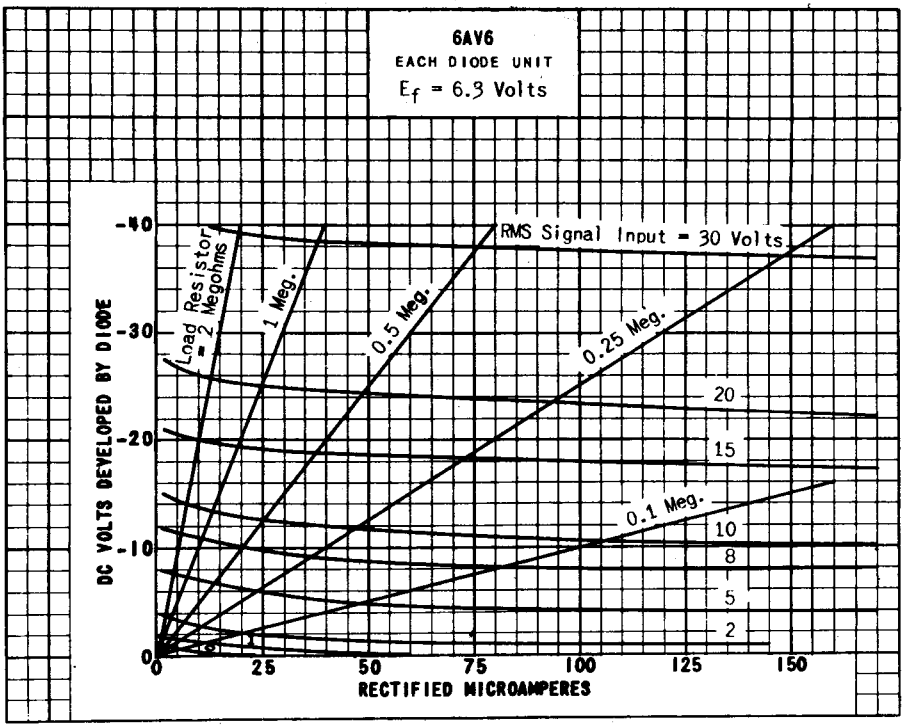

PLATE 1962
FEB. 2, 1948

 ELECTRONIC TUBE DIVISION NEWARK, NEW JERSEY, U. S. A.