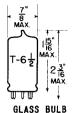
DOUBLE TRIODE

MINIATURE TYPE



UNIPOTENTIAL CATHODES

HEATER

SERIES 12.6 VOLTS 150 MA.

PARALLEL 6.3 VOLTS 300 MA.

AC OR DC

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.



BOTTOM VIEW SMALL BUTTON 9 PIN BASE

TRIONE

ANY MOUNTING POSITION

THE 12AX7 COMBINES TWO COMPLETELY INDEPENDENT HIGH-MU TRIODES IN THE SMALL 9 PIN BUTTON CONSTRUCTION. IT IS ADAPTABLE TO APPLICATIONS WHERE HIGH VOLTAGE GAIN AND LOW HEATER POWER ARE THE IMPORTANT CONSIDERATION, SUCH AS VOLTAGE AMPLIFIERS, PHASE INVERTERS AND MULTIVIBRATORS. THE CEN-TER TAPPED HEATER CONNECTION PERMITS OPERATION FROM EITHER A 6.3 VOLT OR 12.6 VOLT SUPPLY AND IN 300 MA. OR 150 MA. SERIES HEATER SERVICE.

DIRECT INTERELECTRODE CAPACITANCES WITH NO EXTERNAL SHIELD

TRIANE

	UNIT 1	UNIT 2	
GRID TO PLATE: (G TO P)	1.7	1.7	μμf
INPUT: G TO (H + K)	1.6	1.6	μμf
OUTPUT: P TO (H + K)	0.46	0.34	μμf

RATINGS

INTERPRETED ACCORDING TO RMA STANDARD M8-210

EACH TRIODE UNIT

HEATER VOLTAGE	12.6 6.3	VOL TS
MAXIMUM HEATER-CATHODE VOLTAGE	180	VOL TS
MAXIMUM PLATE VOLTAGE	300	VOL TS
MAXIMUM NEGATIVE DC GRID VOLTAGE	50	VOL TS
MAXIMUM POSITIVE DC GRID VOLTAGE	0	VOL TS
MAXIMUM PLATE DISSIPATION	1	WATT

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A. AMPLIETER - FACH TRIODE UNIT

CEAGG	Al AMEED IL	N - LACII	INTOOL ON	1	
HEATER VOLTAGE	12.6	6.3	12.6	6.3	VOL TS
HEATER CURRENT	150	300	150	300	MA.
PLATE VOLTAGE	1	00	250)	VOLTS
GRID VOLTAGE		-1	-:	2	VOLTS
PLATE CURRENT	0	.5	1.9	2	MA.
PLATE RESISTANCE	80 0	00	62 500)	OHMS
TRANSCONDUCTANCE	1 2	50	1 600)	µмноs
AMPLIFICATION FACTOR	1	00	100)	

SIMILIAR TYPE REFERENCE: Characteristics somewhat similiar to types 68176f and 12SL7GT.

PLATE 1931 DEC. 1, 1947

TUNG-SOL

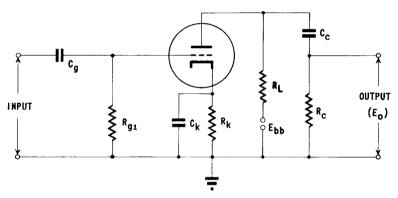
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RESISTANCE COUPLED AMPLIFIER

R ₁	R _C	Ebb = 90 VOLTS		Ebb = 180 VOLTS		Ebb = 300 VOLTS				
MEG.	MEG.	R _k	GAIN	Eo	R _k	GAIN	Eo	R _k	GAIN	Eo
0.1	0.22	4700	35^	4	2000	47	18	1500	52	40
0.22	0.47	7400	45 8	6	3500	59	24	2800	65	49
0.47	1.0	13000	52 ^c	8	6700	66	28	5200	73	54

E IS RMS OUTPUT AT GRID CURRENT POINT.

 $^{^{\}mathrm{B}}$ OUTPUT VOLTAGE OF 3 VOLTS RMS. $^{\mathrm{C}}$ OUTPUT VOLTAGE OF 4 VOLTS RMS.

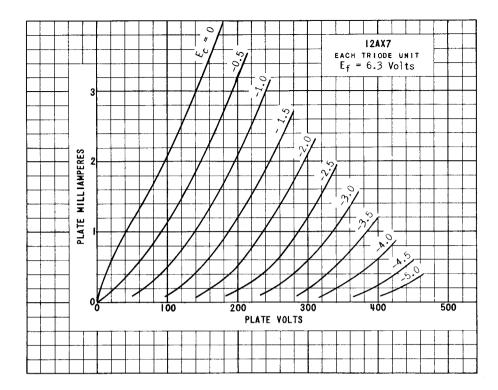


NOTE: COUPLING CAPACITORS Cg
AND Cg SHOULD BE SELECTED TO GIVE DESIRED
FREQUENCY RESPONSE. Rg
SHOULD BE ADEQUATELY
BY-PASSED BY CAPACITOR
Ck.

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GAIN MEASURED AT 5.0 VOLTS RMS OUTPUT EXCEPT AS INDICATED.

AOUTPUT VOLTAGE OF 2 VOLTS RMS.



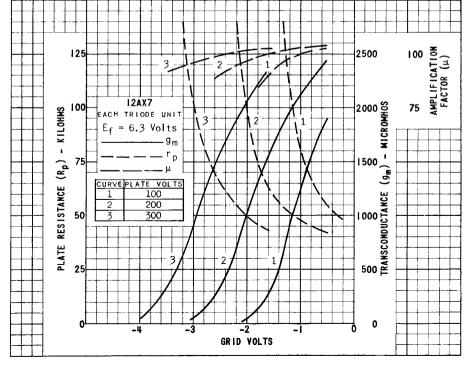


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