## EIMAC 150T GENERAL PURPOSE TRIODE

The EIMAC 150T is a medium mu, three element vacuum tube designed for high efficiency and output as an oscillator or amplifier at audio and radio frequencies up to 75 megacycles. The 150T may be used, at reduced output, up to 300 megacycles. The grid and plate are cylindrical and made of degassed Tantalum. The 5 volt 10 ampere thoriated Tungsten filament is extremely rugged and is designed for long life. Momentary overloads will not release gas from any of the tube elements and there is no "Getter" inside the envelope to give off gas when heated. The plate lead is brought out the top of the glass envelope and the grid lead comes out the side, which reduces interelectrode capacities and increases the interelectrode insulation. The relatively low plate resistance coupled with the amplification factor of approximately 13, results in high transconductance, which reduces the amount of grid driving power necessary to obtain maximum power output with high plate efficiency. All EIMAC tubes are extensively exhausted during manufacture and the exclusive design and construction ensures the maintainance of the exceptionally high vacuum throughout the life of the tube.

FILAMENT VOLTAGE			5	volts
FILAMENT CURRENT			10	amperes
FILAMENT HEATING POWER				watts
RATED PLATE DISSIPATION				watts
AMPLIFICATION FACTOR (average)			13	
NORMAL MAXIMUM PLATE CURRENT			200	MA
NORMAL MAXIMUM GRID CURRENT			50	
PEAK FILAMENT EMISSION				amperes
				uufds
PLATE -GRID CAPACITANCE				uufds
GRID-FILAMENT CAPACITANCE				uufds
PLATE-FILAMENT CAPACITANCE			•0	Nonex
ENVELOPE		44	td. 50	watt:
BASE		51		inches
OVERALL HEIGHT				inches
MAXIMUM DIAMETER	7000	0000	5 C C C C C C C C C C C C C C C C C C C	THORES
PLATE VOLTAGE	1000	2000	3000	
ZERO BIAS PLATE RESISTANCE	2750	1900		
ZERO BIAS TRANSCONDUCTANCE	5800	7300		
NOMINAL POWER OUTPUT (class C 75% eff	·) 150	300	450	
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OPERATING CONDITIONS			TATE TO A I	TTT 1
CLASS C RADIO FREQUENCY POWER AMPLIFI	EK	(C.W.	relegra i	PHY )
PLATE VOLTAGE	1000	2000	3000	
PLATE CURRENT	200	200	200	
GRID CURRENT (DC)	25	25	25	
	-200	-400		
GRID BIAS VOLTAGE	150		450	
POWER OUTPUT (75% eff.)		300		
GRID DRIVING POWER (approximate)	7.5	15	22.5	

## EIMAC 150T TRIODE (continued)

CLASS C RADIO FREQUENCY POWER AMPLIFIER	(TELEPHONY)				
PLATE VOLTAGE PLATE CURRENT GRID CURRENT (DC) GRID BIAS VOLTAGE NORMAL CARRIER OUTPUT (75% eff.) PEAK POWER OUTPUT (100% modulation) GRID DRIVING POWER (approximate)	1000 200 35 -220 150 600 12,5	200 35 -440 300 1200	200 35		
CLASS B AUDIO FREQUENCY POWER AMPLIFIER OR MODULATOR					
PLATE VOLTAGE GRID BIAS VOLTAGE STATIC PLATE CURRENT (per tube) MAX. SIGNAL PLATE CURRENT (per tube) LOAD RESISTANCE (Plate to plate) NOMINAL POWER OUTPUT (two tubes)	1000 -75 12 200 7000 250	-165 12 200	3000 -265 12 200 20000 750		
CLASS B LINEAR RADIO FREQUENCY POWER AMPLIFIER	(TELEPHONY)				
PLATE VOLTAGE GRID BIAS (Good voltage regulation required) PLATE CURRENT NORMAL PLATE EFFICIENCY (unmodulated) NOMINAL POWER OUTPUT (Carrier) PEAK POWER OUTPUT (100% modulation) PLATE LOSS (unmodulated)	1000 -79 200 30% 60 240 140	-170 115 33% 75 300	300		
CLASS BC GRID BIAS MODULATION	(TELEPHONY)				
PLATE VOLTAGE PLATE CURRENT FIXED BIAS (Good voltage regulation required) CATHODE BIAS VOLTAGE NORMAL PLATE EFFICIENCY (unmodulated) NOMINAL CARRIER POWER (unmodulated) PEAK POWER OUTPUT (100% modulation) PLATE LOSS (unmodulated)		-250	<b>-41</b> 5 36% 85		

The operating range of the filament is between 5.0 and 5.2 volts and care should be taken to see that the filament is never operated below 5 volts. The guarantee is invalid unless a suitable filament voltmeter accurately indicates the voltage across the socket terminals at all times.

"COMPARE AND REFLECT"