

# 3CX6000A7/YU-148

The **Eimac** 3CX6000A7/YU-148 high-mu, forced air cooled power triode provides relatively high power output as an amplifier, oscillator, or modulator at low plate voltages. The tube has a low inductance cylindrical filament stem structure which readily becomes part of a linear filament tank circuit for VHF operation. The grid provides shielding between the input and output circuits for grounded grid applications and conveniently terminates in a ring between the plate and filament terminals.

## Characteristics

Plate Dissipation (Max.)	6,000 Watts
Screen Dissipation (Max.)	--- Watts
Grid Dissipation (Max.)	225 Watts
Frequency for Max. rating (CW)	110 MHz
Amplification Factor	200
Filament/Cathode	Thoriated Tungsten
Voltage	7.0 Volts
Current	78.0 Amps
Capacitance	Grounded Cathode
Input	42.0 pf
Output	0.28 pf
Feedthrough	24. pf
Capacitance	---
Input	--- pf
Output	--- pf
Feedthrough	--- pf
Cooling	Forced Air
Base	Coaxial
Air Socket	---
Air Chimney	---
Boiler	---
Length	9.0 in; 22.86 cm
Diameter	6.125 in; 15.56 cm
Weight	9.1 lb; 4.1 kg

		Maximum Ratings		Typical Operation				
Class of Operation	Type of Service	Plate Voltage (Volts)	Plate current (Amps)	Plate Voltage (Volts)	Screen Voltage (Volts)	Plate Current (Amps)	Drive Power (Watts)	Output Power (kiloWatts)
C	RF Amplifier	7,000	3.5	5,700	---	2.5	600	10.0

Characteristics and Operating values are based on performance tests. Figures may change without notice as the result of additional data or product refinement. CPI Eimac Division should be consulted before using this information for final equipment design.

***Last page update 3/21/97 4:21:14 PM***  
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