

# 3CX10,000A3/8159

The **Eimac** 3CX10,000A3 is a forced air cooled, ceramic/metal, medium-mu power triode designed primarily for use in industrial radio-frequency heating services. Input of 32 kW is permissible up to 140 MHz. Plentiful reserve emission is available from its 743 watt filament. The grid structure is rated at 250 watts, making this tube an excellent choice for industrial service.

## Characteristics

Plate Dissipation (Max.)	10,000 Watts
Screen Dissipation (Max.)	--- Watts
Grid Dissipation (Max.)	250 Watts
Frequency for Max. rating (CW)	160 MHz
Amplification Factor	20
Filament/Cathode	Thoriated Tungsten
Voltage	7.5 Volts
Current	99.0 Amps
Capacitance	Grounded Cathode
Input	53.0 pf
Output	1.4 pf
Feedthrough	34 pf
Capacitance	---
Input	--- pf
Output	--- pf
Feedthrough	--- pf
Cooling	Forced Air
Base	Coaxial
Air Socket	SK-1300
Air Chimney	SK-1306
Boiler	---
Length	8.75 in; 222.20 mm
Diameter	7.05 in; 179.10 mm
Weight	12.0 lb; 5.5 kg

Class of Operation	Type of Service	Maximum Ratings		Typical Operation				
		Plate Voltage (Volts)	Plate current (Amps)	Plate Voltage (Volts)	Screen Voltage (Volts)	Plate Current (Amps)	Drive Power (Watts)	Output Power (kiloWatts)
C	Cathode Driven RF Amplifier	7,000	4.0	7,000	---	4.0	4,100	24.5
C	Grid Driven RF AMplifier Plate Modulated	5500	3.0	5,000	---	3.0	515	12.4
C	RF Industrial Oscillator or Amplifier	7,000	4.0	7,000	---	4.0	600	22.4
AB2	Cathode Driven RF Linear Amplifier	7,000	5.0	7,000	---	4.0	2,050	20.0

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.

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