

The 3CX5000A3 is a medium-mu power triode designed primarily for use as a power oscillator in industrial heating applications. It is also recommended for use as a grounded grid FM amplifier, as a conventional plate modulator, or as a linear amplifier. Plentiful reserve emission is available from the 560-watt filament. The grid structure is rated at 100 watts making this tube an excellent choice for severe application.



## CHARACTERISTICS

Plate Dissipation (Max.)	5,000 Watts
Screen Dissipation (Max.)	N/A
Grid Dissipation (Max.)	100 Watts
Frequency for Max. rating (CW)	110 MHz
Amplification Factor	18
Filament/Cathode	Thoriated Tungsten
Voltage	7.5 Volts
Current	75.0 Amps
Capacitance	Grounded Cathode
Input	51.0 pf
Output	1.5 pf
Feedthrough	25 pf
Capacitance	N/A
Input	N/A
Output	N/A
Feedthrough	N/A
Cooling	Forced Air
Base	Special Coaxial
Air Socket	SK-1300
Air Chimney	SK-1316
Boiler	---
Length	8.750 in; 222.20 mm
Diameter	6.4 in; 162.70 mm
Weight	9.5 lb; 4.3 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	Grid Driven RF Amplifier	7,500	3.0	---	---	---	---	---
C	Grid Driven RF Amplifier Plate Modulated	5,000	2.5	---	---	---	---	---
C	RF Industrial Oscillator	10,000	3.0	9,000	---	2.5	208	18.6
AB	Grid Driven Amplifier or Modulator	7,500	4.0	---	---	---	---	---

The values listed above represent specified limits for the product and are subject to change. The data should be used for basic information only. Formal, controlled specifications may be obtained from CPI for use in equipment design.



**For information** on this and other CPI MPP products, visit our website at: [www.cpii.com](http://www.cpii.com), or contact: CPI Microwave Products Division, Eimac Operation, 607 Hansen Way, Palo Alto, CA 94303  
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