

Communications & Power Industries Triode



The 3CX5000A7 medium-mu triode is 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 applications.

FEATURES:

Maximum plate dissipation:	5,000 Watts
Maximum screen dissipation:	---
Maximum grid dissipation:	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: Grounded grid	
Input:	--- pF
Output:	--- pF
Feedthrough:	--- pF
Cooling:	Forced Air
Base:	Special Coaxial
Air Socket:	SK-1300
Air Chimney:	SK-1316
Boiler:	---
Length:	8.75 in; 222.20 mm
Diameter:	6.4 in; 162.70 mm
Weight:	9.5 lb; 4.3 kg

BENEFITS:

- Worldwide brand name recognition
- Over 85 years technical expertise

APPLICATIONS:

- Industrial

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	---	---	---	---	---

With a history of producing high quality products, we can help you with your triode.

Contact us at MPPMarketing@cpii.com or call us at +1 650-846-2800. The data should be used for basic information only.

Formal, controlled specifications may be obtained from CPI for use in equipment design.



**Microwave Power
Products Division**
811 Hansen Way
Palo Alto, California
USA 94304

tel +1 650-846-2800
fax +1 650-856-0705
email MPPMarketing@cpii.com
web www.cpii.com/MPP

For more detailed information, please refer to the corresponding CPI technical description if one has been published, or contact CPI. Specifications may change without notice as a result of additional data or product refinement. Please contact CPI before using this information for system design.

©2020 Communications & Power Industries LLC.
Company proprietary: use and reproduction is strictly prohibited without written authorization from CPI.