3000 W HIGH MU POWER TRIODE

Communications & Power Industries Triode



3CX3000A7



The 3CX3000A7 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 tank circuit for VHF operation. Operation with zero grid bias in many applications offers circuit simplicity by eliminating the bias supply. Grounded-grid operation is attractive since a power gain of over twenty times can be obtained.

FEATURES:

Maximum plate dissipation:	4,000 Watts		
Maximum screen dissipation:			
Maximum grid dissipation:	225 Watts		
Frequency for max rating (CW):	110 MHz		
Amplification factor:	160		
Filament/cathode:	Thoriated Tungsten		
Voltage:	7.5 Volts		
Current:	51.5 Amps		
Capacitance: Grounded cathode)		
Input:	38.0 pF		
Output:	0.6 pF		
Feedthrough:	24.0 pF		
Capacitance: Grounded grid			
Input:	38.0 pF		
Output:	24.0 pF		
Feedthrough:	0.6 pF		
Cooling:	Forced Air		
Base:	Special, Coaxial		
Air Socket:			
Air Chimney:			
Boiler:			
Length:	9.0 in; 228.60 mm		
Diameter:	4.15 in; 105.50 mm		
Weight:	6.2 lb; 2.8 kg		

BENEFITS:

- Worldwide brand name recognition
- Over 85 years technical expertise

APPLICATIONS:

- Communications
- Industrial



		махіми	M 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)
С	Cathode driven RF amplifier	5,000	2.5	4,800		1.5	435	5.5
AB2	Cathode driven RF linear amplifier	5,000	2.5	4,800		2.0	410	7.26
AB2	Grid driven RF amplifier linear amplifier AM service	5,000	2.5	4,000		0.74	115	1.13
AB2	Grid driven AF amplifier or modulator	5,000	2.5	4,000		3.6	115	10.5

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.

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