

Communications & Power Industries Triode



The 3CX10,000U7 high-mu triode is intended for use as a cathode driven RF amplifier in the VHF spectrum. It is a very linear device making it ideally suited for TV service in addition to CW and pulsed RF amplifier service. The 3CX10,000U7 makes use of beam forming cathode and control grid geometry to product high gain, low grid interception and zero-bias operation capability. The CV2240B and CV2250B 10 kW peak sync VHF-TV broadcast cavities are available for use with the 3CX10,000U7.

FEATURES:

Maximum plate dissipation:	10,000 Watts
Maximum screen dissipation:	---
Maximum grid dissipation:	50 Watts
Frequency for max rating (CW):	250 MHz
Amplification factor:	200
Filament/cathode:	Oxide Coated
Voltage:	15.0 Volts
Current:	13.5 Amps
Capacitance: Grounded cathode	
Input:	--- pF
Output:	--- pF
Feedthrough:	--- pF
Capacitance: Grounded grid	
Input:	86.5 pF
Output:	23.2 pF
Feedthrough:	0.2 pF
Cooling:	Forced Air
Base:	Special Coaxial
Air Socket:	SK-2500
Air Chimney:	SK-2506
Boiler:	---
Length:	7.3 in; 185 mm
Diameter:	8.3 in; 211 mm
Weight:	20.0 lb; 9.1 kg

BENEFITS:

- Worldwide brand name recognition
- Over 85 years technical expertise

APPLICATIONS:

- Communications
- Industrial
- Medical

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)
AB	Cathode driven low band TV linear RF amplifier	6,500	4.0	5,000	---	3.72	400	10.0
AB	Cathode driven high band TV linear RF amplifier	6,500	4.0	5,500	---	3.6	410	10.0
C	Cathode driven pulse RF amplifier short pulse	13,000	54	7,200	---	---	1,580	40.0

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.



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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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