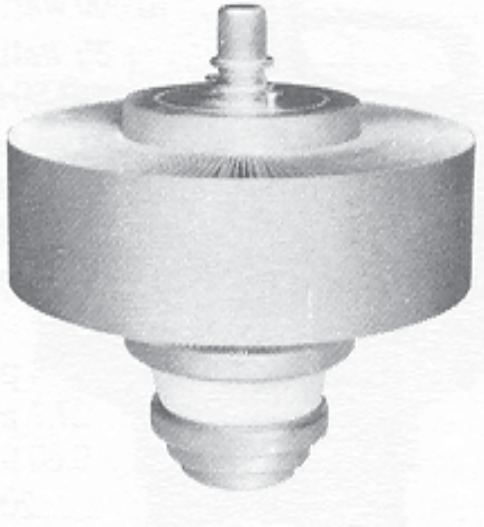


The 3CX10,000U7 high-mu triode is intended for use as a cathode driven RF amplifier in the VHF spectrum. It is a very linear device making it ideally suited for TV service in addition to CW and pulsed RF amplifier service. The 3CX10,000U7 makes use of beam forming cathode and control grid geometry to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



## CHARACTERISTICS

Plate Dissipation (Max.)	10,000 Watts
Screen Dissipation (Max.)	---
Grid Dissipation (Max.)	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 Grid
Input	86.5 pf
Output	23.2 pf
Feedthrough	0.2 pf
Capacitance	---
Input	--- pf
Output	--- pf
Feedthrough	--- 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 oz; 9.1 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)
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

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 products, visit our website at: [www.cpii.com](http://www.cpii.com), or contact: CPI MPP Division, Eimac Operations, 607 Hansen Way, Palo Alto, CA 94303  
**TELEPHONE:** 1(800) 414-8823. **FAX:** (650) 592-9988 | **EMAIL:** [powergrid@cpii.com](mailto:powergrid@cpii.com)