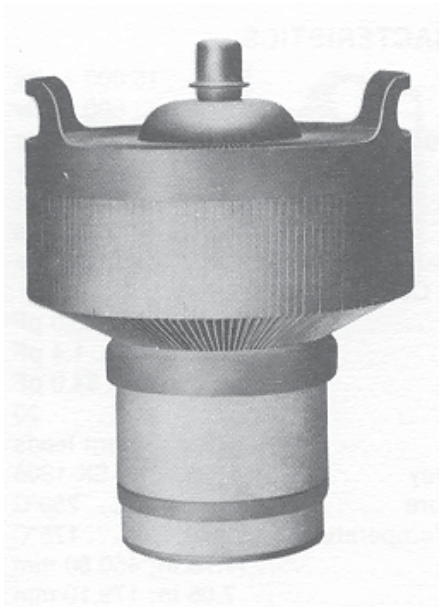


The 3CX10,000A7/8160 is a high-mu power triode and is intended for use as a zero bias Class B amplifier an audio or RF applications, or as a Class C amplifier, CW or modulated. Operation in a Class B with zero grid bias offers circuit simplicity by eliminating the bias supply, and in addition grounded-grid operation is attractive since a power gain as high as twenty times can be obtained with the tube.



CHARACTERISTICS

Plate Dissipation (Max.)	10,000 Watts
Screen Dissipation (Max.)	---
Grid Dissipation (Max.)	500 Watts
Frequency for Max. rating (CW)	160 MHz
Amplification Factor	200
Filament/Cathode	Thoriated Tungsten
Voltage	7.5 Volts
Current	99.0 Amps
Capacitance	Grounded Cathode
Input	59.0 pf
Output	0.2 pf
Feedthrough	36 pf
Capacitance	Grounded Grid
Input	59.0 pf
Output	36 pf
Feedthrough	0.2 pf
Cooling	Forced Air
Base	Coaxial
Air Socket	SK-1300
Air Chimney	SK-1306
Boiler	---
Length	8.75 in; 222.20 mm
Diameter	7.05 in; 179.10 mm
Weight	12.0 lb ; 5.5 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	Cathode driven RF amplifier	8,000	4.0	7,600	---	3.7	1,510	22.5
C	Grid driven RF amplifier plate modulated	6,500	3.0	5,000	---	3.0	380	11.9
AB2	Cathode driven RF amplifier	8,000	5.0	7,000	---	5.0	1,540	24.2
AB2	Cathode driven RF linear amplifier AM service	8,000	5.0	7,000	---	2.4	330	5.6
AB2	Grid driven AF amplifier or modulator	8,000	5.0	7,000	---	10.0	560	47.7

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, or contact: CPI MPP Division, Eimac Operations, 607 Hansen Way, Palo Alto, CA 94303
TELEPHONE: 1(800) 414-8823. **FAX:** (650) 846-3795 | **EMAIL:** powergrid@cpii.com