Communications & Power Industries

3CX1000A7/8283

The 3CX1000A7/8283 high-mu triode is intended for Class AB2 linear amplifier service in either grid-driven or cathode driven configuration. It is recommended for use as a grid driven push-pull audio amplifier or modulator and as a cathode driven linear amplifier through the VHF-TV bands.



CHARACTERISTICS

Plate Dissipation (Max.)	1,000 Watts
Screen Dissipation (Max.)	---
Grid Dissipation (Max.)	45 Watts
Frequency for Max. rating (CW)	220 MHz
Amplification Factor	200
Filament/Cathode	Thoriated Tungsten
Voltage	5.0 Volts
Current	30.5 Amps
Capacitance	Grounded Cathode
Input	32.0 pf
Output	0.15 pf
Feedthrough	14 pf
Capacitance	Grounded Grid
Input	32.0 pf
Output	14.0 pf
Feedthrough	.15 pf
Cooling	Forced Air
Base	Special breechblock
Air Socket	SK-860
Air Chimney	SK-870
Boiler	---
Length	4.80 in; 121.90 mm
Diameter	3.38 in; 85.80 mm
Weight	2.0 lb ; 0.91 kg

		MAXIMUM 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)
C	Grid driven RF amplifier	3,500	0.7	---	---	---	---	---
C	Grid driven RF amplifier plate modulated	2,000	0.55	---	---	---	---	---
AB2	Cathode driven RF linear amplifier	3,500	1.0	3,500	---	0.86	100	2060
AB2	Grid driven amplifier or modulator	3,500	1.0	2,500	---	2.0	44	3100

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.

ISO 9001

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
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