

The 3CX1500A7/8877 power triode is designed for use as a cathode driven Class AB2 or Class B amplifier, in audio or RF applications including the VHF band or as a cathode driven plate modulator Class C RF amplifier. As a linear amplifier, high power gain may be obtained without sacrifice of low intermodulation distortion and high amplification factor combine to make drive requirements exceptionally low for a tube of this power capacity.



## CHARACTERISTICS

Plate Dissipation (Max.)	1,500 Watts
Screen Dissipation (Max.)	---
Grid Dissipation (Max.)	25 Watts
Frequency for Max. rating (CW)	250 MHz
Amplification Factor	200
Filament/Cathode	Oxide Coated
Voltage	5.0 Volts
Current	10.5 Amps
Capacitance	Grounded Cathode
Input	38.5 pf
Output	0.1 pf
Feedthrough	10.0 pf
Capacitance	Grounded Grid
Input	38.5 pf
Output	10.2 pf
Feedthrough	0.1 pf
Cooling	Forced Air
Base	Special 7-Pin
Air Socket	SK-2210
Air Chimney	SK-2216
Boiler	---
Length	4.02 in; 102.20 mm
Diameter	3.38 in; 85.80 mm
Weight	1.6 lb ; 0.7 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 plate modulated at 30 MHz	3,200	0.8	2,400	---	0.60	41	1.0
B	Cathode driven RF linear amplifier at 108 MHz	4,000	1.0	4,000	---	1.0	78	2.6
AB2	Cathode driven RF linear amplifier at 220 MHz	4,000	1.0	2,500	---	1.0	57	1.52
AB2	Cathode driven RF linear amplifier at 30 MHz	4,000	1.0	3,500	---	1.0	64	2,075

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.



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