

The 5CX1500A is designed for use as a Class C rf power amplifier in radio frequency applications. For FM broadcast service, the 5CX1500B is recommended in place of the 5CX1500A, for improved reliability.



CHARACTERISTICS

Plate Dissipation (Max.)	1,500 Watts
Screen Dissipation (Max.)	75 Watts
Grid Dissipation (Max.)	25 Watts
Frequency for Max. rating (CW)	110 MHz
Amplification Factor	5.5
Filament/Cathode	Thoriated Tungsten
Voltage	5.0 Volts
Current	40.0 Amps
Capacitance	Grounded Cathode
Input	75.0 pf
Output	16.5 pf
Feedthrough	0.2 pf
Capacitance	Grounded Grid
Input	34.5 pf
Output	16.5 pf
Feedthrough	.05 pf
Cooling	Forced Air
Base	Special Ring/ Breechblock
Air Socket	SK-840
Air Chimney	SK-806
Boiler	---
Length	4.95 in; 125.70 mm
Diameter	3.37 in; 85.60 mm
Weight	30 oz; 850 gm

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	RF amplifier	5,000	1.0	4,500	500	0.90	9.0	3.18
C	RF Amplifier plate modulated	3,500	0.8	3,200	500	0.80	10.0	1.958
AB1	RF linear amplifier	4,000	1.0	4,000	500	0.70	---	1.785
AB1	AF amplifier or modulated	4,000	1.0	3,800	500	1.3	---	3.22

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.