Communications & Power Industries

4CX1500A

The 4CX1500A is a general purpose tetrode for use up to and through VHF. Insulation is ceramic and the thoriated tungsten filament is a rugged mesh design. The screen terminal is a continuous ring which allows good isolation between the plate and the control grid circuit. The 4CX1500A is recommended for use as a Class C power amplifier, Class B or Class AB1 linear amplifier, and as a regulator and in pulse modulator service.

CHARACTERISTICS

Plate Dissipation (Max.)	1,500 Watts
Screen Dissipation (Max.)	75 Watts
Grid Dissipation (Max.)	25 Watts
Frequency for Max. rating (CW)	150 MHz
Amplification Factor	5.5
Filament/Cathode	Thoriated Tungsten
Voltage	5.0 Volts
Current	38.5 Amps
Capacitance	Grounded Cathode
Input	78.0 pf
Output	10.5 pf
Feedthrough	0.5 pf
Capacitance	N/A
Input	N/A
Output	N/A
Feedthrough	N/A
Cooling	Forced Air
Base	Special, Breechblock
Air Socket	SK-831
Air Chimney	SK-806
Boiler	N/A
Length	4.90 in; 124.50 mm
Diameter	3.37 in; 85.60 mm
Weight	36 oz; 850 gm

		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	RF Amplifier at 30 MHz	5,000	1.0	4,000	500	0.80	3.6	2.5
C	RF Amplifier at 220 MHz	3,000	1.0	3,000	500	1.01	31.5	1.5
C	RF Amplifier Plate Modulated at 30 MHz	3,500	0.8	3,400	500	0.90	10	2.32
AB	RF Linear Amplifier at 30 MHz	4,000	1.0	3,900	600	0.75	---	1.85
AB	AF Amplifier or Modulator (2 tubes)	4,000	1.0	3,900	600	1.5	---	3.7

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.

ISO 9001

For information on this and other CPI MPP products, visit our website at: **www.cpii.com**,
or contact: CPI Microwave Products Division, Eimac Operation,607 Hansen Way, Palo Alto, CA 94303
TELEPHONE: 1(800) 414-8823. **FAX:** (650) 592-9988 | **EMAIL:** powergrid@cpii.com