

Communications & Power Industries Pentode



FEATURES:

Maximum plate dissipation:	1500 W
Maximum screen dissipation:	75 W
Maximum grid dissipation:	25 W
Frequency for max rating (CW):	110 MHz
Amplification factor:	5.5
Filament/cathode:	Thoriated tungsten
Voltage:	5.0 V
Current:	40.0 A
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

BENEFITS:

- Worldwide brand name recognition
- Over 85 years in business

APPLICATIONS:

- Communications
- Science

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.

CPI 1500 W Radial Beam Power Pentode: 5CX1500A

		Maximum Ratings		Typical Operation				
Class of Operation	Type of Service	Plate Voltage (V)	Plate Current (A)	Plate Voltage (V)	Screen Voltage (V)	Plate Current (A)	Drive Power (W)	Output Power (kW)
C	RF amplifier	5000	1.0	4500	500	0.90	9.0	3.18
C	RF amplifier plate modulated	3500	0.8	3200	500	0.80	10.0	1.958
AB1	RF linear amplifier	4000	1.0	4000	500	0.70	---	1.785
AB1	AF amplifier or modulated	4000	1.0	3800	500	1.3	----	3.22

With a history of producing high quality products, we can help you with your klystron.

Contact us at MPPMarketing@cpii.com or call us at +1 650-846-2800. The data should be used for basic information only

Formal, controlled specifications may be obtained from CPI for use in equipment design.



**Microwave Power
Products Division**
811 Hansen Way
Palo Alto, California
USA 94304

tel +1 650-846-2800
fax +1 650-856-0705
email MPPMarketing@cpii.com
web www.cpii.com/MPP

For more detailed information, please refer to the corresponding CPI technical description if one has been published, or contact CPI. Specifications may change without notice as a result of additional data or product refinement. Please contact CPI before using this information for system design.

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