Communications & Power Industries

3CPX5000A7

The 3CPX5000A7 high-mu triode is designed for use as a cathode driven Class AB pulsed power amplifier and as a switch tube in cathode or grid driven service. The tube does not require a socket as it is designed to bolt directly to the chassis be means of the grid flange. Cathode and heater connections are made by bolting directly to the amplifier circuitry. These features reduce equipment cost and complexity.



CHARACTERISTICS

Plate Dissipation (Max.)	5,000 Watts
Screen Dissipation (Max.)	---
Grid Dissipation (Max.)	25 Watts
Frequency for Max. rating (CW)	110 MHz
Amplification Factor	200
Filament/Cathode	Oxide Coated
Voltage	15 Volts
Current	14 Amps
Capacitance	Grounded Grid
Input	95 pf
Output	35 pf
Feedthrough	0.5 pf
Capacitance	---
Input	--- pf
Output	--- pf
Feedthrough	--- pf
Cooling	Forced Air
Base	Direct Chassis Mount
Air Socket	---
Air Chimney	SK-306
Boiler	---
Length	8.25 in; 20.96 cm
Diameter	4.94 in; 12.55 cm
Weight	9.5 lb; 4.3 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)
AB	Cathode driven RF Linear Amplifier, Pulsed	6,500	67	6,500	---	14.9	6,500	60.0
---	Switch tube or pulse modulator	12,000	67	12,000	---	67.5	---	---

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.

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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