

Communications & Power Industries Triode



The 3CW40,000A7 is a ceramic/metal power triode designed for use as an high power RF power amplifier for industrial and scientific applications. The high-mu grid in this tube provides excellent isolation and permits stable operation as a grounded grid linear amplifier in Class AB or B. With simple cathode bias, the tube operates in Class C for high efficiency. It's water-cooled anode has a maximum dissipation rating of 40 kilowatts.

FEATURES:

Maximum plate dissipation:	40,000 Watts
Maximum screen dissipation:	---
Maximum grid dissipation:	750 Watts
Frequency for max rating (CW):	30 MHz
Amplification factor:	200
Filament/cathode:	Thoriated Tungsten
Voltage:	12.0 Volts
Current:	110 Amps
Capacitance: Grounded cathode	
Input:	79.5 pF
Output:	0.27 pF
Feedthrough:	46.5 pF
Capacitance: Grounded grid	
Input:	79.5 pF
Output:	46.5 pF
Feedthrough:	0.27 pF
Cooling:	Water and Forced Air
Base:	Coaxial
Air Socket:	SK-1320
Air Chimney:	---
Boiler:	---
Length:	12.25 in; 311.0 mm
Diameter:	6.5 in; 171.0 mm
Weight:	17.0 lb; 7.7 kg

BENEFITS:

- Worldwide brand name recognition
- Over 85 years technical expertise

APPLICATIONS:

- Industrial
- Scientific

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 power amplifier	12,000	9	10,000	---	6.6	2300	37.5
C	RF power amplifier	12,000	9	12,000	---	7.7	3200	76.0
AB2	RF power amplifier	12,000	9	10,000	---	8.1	1800	54.0

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

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.



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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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