

Communications & Power Industries Triode



The 3CX1500C7/8938 is a rugged coaxial base power triode designed for use as a cathode-driven Class AB₂ or Class C amplifier. It is recommended for VHF or UHF service as a linear amplifier, power amplifier or pulse amplifier. Linearity and power gain are both excellent due to the low ratio of grid-to-plate current and relatively high amplification factor. Low grid interception of available emission current is due to the beam forming geometry of the special grid and cathode design.

FEATURES:

Maximum plate dissipation:	1,500 Watts
Maximum screen dissipation:	---
Maximum grid dissipation:	20 Watts
Frequency for max rating (CW):	500 MHz
Amplification factor:	125
Filament/cathode:	Oxide Coated
Voltage:	5.0 Volts
Current:	10.5 Amps
Capacitance: Grounded cathode	
Input:	--- pF
Output:	--- pF
Feedthrough:	--- pF
Capacitance: Grounded grid	
Input:	35.5 pF
Output:	12.4 pF
Feedthrough:	.14 pF
Cooling:	Forced Air
Base:	Coaxial
Air Socket:	SK-2220
Air Chimney:	SK-2216
Boiler:	---
Length:	3.68 in; 9.34 cm
Diameter:	3.38 in; 8.58 cm
Weight:	25 oz; 709 gm

BENEFITS:

- Worldwide brand name recognition
- Over 85 years technical expertise

APPLICATIONS:

- Communications
- Industrial
- Amateur Service

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	Cathode driven RF amplifier at 400 MHz	4,000	1.0	3,000	---	1.0	83	1.57
AB2	Cathode driven RF linear amplifier at 108 MHz	4,000	1.0	3,500	---	0.97	50	2.03

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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