

Communications & Power Industries Tetrode



The 8973 is a power tetrode designed for very high powered medium frequency or high frequency broadcast service and a very low frequency communication in the half-megawatt power range. The 8973 has a thoriated tungsten filament mounted on water-cooled supports. Large diameter coaxial terminals are used for the control grid and the RF filament terminals. Filament power and filament support cooling water connections are made through special couplings with threaded clamping rings.

FEATURES:

Maximum plate dissipation:	1,000 Watts
Maximum screen dissipation:	7.5 Kilowatts
Maximum grid dissipation:	2.0 Kilowatts
Frequency for max rating (CW):	110 MHz
Amplification factor:	4.5
Filament/cathode:	Thoriated Tungsten
Voltage:	16.3 Volts
Current:	600 Amps
Capacitance: Grounded cathode	
Input:	--- pF
Output:	--- pF
Feedthrough:	--- pF
Capacitance: Grounded grid	
Input:	1000 pF
Output:	165 pF
Feedthrough:	5.0 pF
Cooling:	Water and Forced Air
Base:	Special Coaxial
Air Socket:	---
Air Chimney:	---
Boiler:	---
Length:	18.75 in; 476.20 mm
Diameter:	17.03 in; 432.60 mm
Weight:	153.0 lb; 69.5 kg

BENEFITS:

- Worldwide brand name recognition
- Over 85 years technical expertise

APPLICATIONS:

- Communications
- Industrial
- Science

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 Amplifier	22,500	65.0	21,000	1,500	59.0	2,700	1,025.0
C	RF Amplifier Plate Modulated	17,500	50.0	17,500	800	50.0	2,400	700.0
AB1	RF Linear Amplifier	22,500	110.0	20,000	1,500	45.0	---	610.0
AB1	AF Amplifier or Modulator	22,500	110.0	17,500	1,500	78.0	---	950.0
B	RF Amplifier, Long Pulse, Grounded Grid	1,000	000	24,500	1,750	94.2	7,140	1,770.0

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

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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