



8973

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.



CHARACTERISTICS

Plate Dissipation (Max.) 1,000 Kilowatts
Screen Dissipation (Max.) 7.5 Kilowatts
Grid Dissipation (Max.) 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 1000 pf
Output 165 pf
Feedthrough 5.0 pf
Capacitance N/A
Input N/A
Output N/A
Feedthrough N/A

Cooling Water and Forced Air
Base Special Coaxial

Air Socket N/A
Air Chimney N/A
Boiler N/A

 Length
 18.75 in; 476.20 mm

 Diameter
 17.03 in; 432.60 mm

 Weight
 153.0 lb; 69.5 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)
C C AB1 AB1 B	RF Amplifier RF Amplifier Plate Modulated RF Linear Amplifier AF Amplifier or Modulator RF Amplifier, Long Pulse, Grounded Grid	22,500 17,500 22,500 22,500 1,000	65.0 50.0 110.0 110.0 000	21,000 17,500 20,000 17,500 24,500	1,500 800 1,500 1,500 1,750	59.0 50.0 45.0 78.0 94.2	2,700 2,400 7,140	1,025.0 700.0 610.0 950.0 1,770.0

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 MPP products, visit our website at: www.cpii.com, or contact: CPI Microwave Products Division, Eimac Operation,607 Hansen Way, Palo Alto, CA 94303

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