4CW50,000E

Communications & Power Industries Tetrode





The 4CW50,000E is characterized by low input and feedback capacitances and low internal lead inductances. A rugged thoriated tungsten filament provides adequate emission over the long operating life. It is recommended for use as a Class C RF amplifier or oscillator, a Class AB RF linear amplifier, a Class AB push-pull AF amplifier or modulator. The 4CW50,000E is also useful as a plate and screen-modulated Class C RF amplifier.

FEATURES:

Maximum plate dissipation: Maximum screen dissipation: Maximum grid dissipation: Frequency for max rating (CW): Amplification factor: Filament/cathode: Voltage: Current: Capacitance: Grounded cathode	50,000 Watts 1,500 Watts 400 Watts 110 MHz 4.5 Thoriated Tungsten 12.0 Volts 215 Amps				
' Input:	310.0 pF				
Output:	52.0 pF				
Feedthrough:	0.7 pF				
Capacitance: Grounded grid					
Input:	140.0 pF				
Output:	52.0 pF				
Feedthrough:	0.3 pF				
Cooling:	Water and Forced Air				
Base:	Special Coaxial				
Air Socket:	SK-2011A				
Air Chimney:					
Boiler:					
Length:	11.50 in; 292.0 mm				
Diameter:	9.53 in; 242.00 mm				
Weight:	35.0 lb; 15.9 kg				

BENEFITS:

- Worldwide brand name recognition
- Over 85 years technical expertise

APPLICATIONS:

- Communications
- Industrial
- Science



		махіми	M 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)
С	RF amplifier	17,500	12.0	15,000	1,500	11.5	150	137.0
С	RF amplifier plate modulated	15,000	12.0	14,000	750	9.2	685	110.0
AB1	RF linear amplifier	17,500	12.0	10,000	1,800	9.1		57.0
AB1	AF linear amplifier	17,500	12.0	15,000	1,250	18.6		195.0

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.



Microwave Power Products Division 811 Hansen Way Palo Alto, California USA 94304 tel +1 650-846-2800 fax +1 650-856-0705 email MPPMarketing@cpii.com web www.cpii.com/MPP

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.

©2020 Communications & Power Industries LLC. Company proprietary: use and reproduction is strictly prohibited without written authorization from CPI.