Communications & Power Industries Triode





The 3CW7000F7/YU-106 is a water-cooled high-mu triode intended for use as an amplifier, oscillator, or modulator, or in voltage regulator applications. Its maximum rated anode dissipation is 7000 watts. The 3CW7000F7/YU-106 is a water-cooled version of the air cooled 3CX3000F7 and is identical except for the addition of flexible leads on the base for grid and filament connections, which can simplify socketing in low-frequency operations. Operation with zero grid bias in many applications offers circuit simplicity by eliminating the bias supply. Grounded grid operation is attractive since a power gain of over 20 times can be obtained.

FEATURES:

Maximum plate dissipation: 7,000 Watts

Maximum screen dissipation: ---

Maximum grid dissipation: 225 Watts Frequency for max rating (CW): 75 MHz Amplification factor: 160

Filament/cathode: Thoriated Tungsten

Voltage: 7.5 Volts Current: 51.5 Amps

Capacitance: Grounded cathode

Input: 38.0 pF
Output: 0.6 pF
Feedthrough: 24.0 pF

Capacitance: Grounded grid

Input: --- pF
Output: --- pF
Feedthrough: --- pF

Cooling: Water and Forced Air Base: Flexible Filament Leads

Air Socket: --Air Chimney: --Boiler: ---

Length: 12.56 in; 31.9 cm
Diameter: 3.625 in; 9.22 cm
Weight: 4.8 lb; 2.2 kg

BENEFITS:

- Worldwide brand name recognition
- Over 85 years technical expertise

APPLICATIONS:

• Industrial



		MAXIMUI	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 industrial oscillator or amplifier	5,000	2.5	4,800		1.5	435	5.5

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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