



The 3CW7000F7/YU-106 is a ceramic/metal, 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 lowfrequency 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.



3CW7000F7/YU-106

CHARACTERISTICS

Plate Dissipation (Max.) Screen Dissipation (Max.) Grid Dissipation (Max.) Frequency for Max. rating (CW) **Amplification Factor** Filament/Cathode Voltage Current Capacitance Input Output Feedthrough Capacitance Input Output Feedthrough Cooling Base Air Socket Air Chimney Boiler Length Diameter Weight 4.1 lb; 1.9 kg

7,000 Watts
225 Watts
75 MHz
160
Thoriated Tungsten
7.5 Volts
51.5 Amps
Grounded Cathode
38.0 pf
0.6 pf
24 pf
2 - pi
pf
pf
pf
Water and Forced Air
Flexible Filament
12.56 in; 31.9 mm
3.63 in; 9.22 cm
$11 \text{ lb} \cdot 10 \text{ kg}$

		ΜΑΧΙΜυΙ	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)
C	RF industrial oscillator or amplifier	5,000	2.5	4,800		1.5	435	5.5

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 products, visit our website at: www.cpii.com, or contact: CPI MPP Division, Eimac Operations, 607 Hansen Way, Palo Alto, CA 94303 TELEPHONE: 1(800) 414-8823. FAX: (650) 592-9988 | EMAIL: powergrid@cpii.com