3000 W HIGH MU POWER TRIODE 3CX3000F7/8162

Communications & Power Industries Triode

The 3CX3000F7/8162 high-mu forced air cooled power triode provides relatively high power output as an amplifier, oscillator or modulator at low voltages. The tube has a low inductance cylindrical filament tank circuit for VHF operation. 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 twenty times can be obtained. The 3CX3000F7/8162 tube is identical to the 3CX3000A7 except for the addition of flexible leads on the base for grid and filament connections which can simplify sockeitng in low frequency applications.

FEATURES:

Maximum plate dissipation:	4,000 Watts
Maximum screen dissipation:	---
Maximum grid dissipation:	225 Watts
Frequency for max rating (CW):	30 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:	38.0 pF
Output:	24.0 pF
Feedthrough:	0.6 pF
Cooling:	Forced Air
Base:	Special with Flying Leads
Air Socket:	---
Air Chimney:	---
Boiler:	---
Length:	18.437 in; 468.30 mm
Diameter:	4.15 in; 105.50 mm
Weight:	7.0 lb; 3.2 kg

BENEFITS:

- Worldwide brand name recognition
- Over 85 years technical expertise

APPLICATIONS:

- Communications

		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	Cathode Driven RF amplifier	5,000	2.5	4,800	---	1.5	435	5.5
AB2	RF Linear Amplifier	5,000	2.5	4,800	---	2.0	410	7.26
AB2	Grid Driven RF Linear Amplifier AM Service	5,000	2.5	4,000	---	0.74	115	1.13
AB2	Grid Driven AF Amplifier or Modulator	5,000	2.5	4,000	---	3.6	115	10.5
D	Switching Modulator	15,000	2.5	13,700	---	0.53	---	---

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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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.