2500 W POWER TRIODE 3CW2500C7/YU-157

Communications & Power Industries Triode

The 3CW2500C7/YU-157 is a rugged coaxial base power triode designed for use as a cathode driven Class AB_2 or Class C amplifier. It is recommended for VHF or UHF service as a linear amplifier, power amplifier or pulse amplifier. Linearity and power gain are both excellent due to the low ratio of grid-to-plate current and the relatively high amplification factor. This tube is a water-cooled version of the 8939/3CX1500C7.

FEATURES:

Maximum plate dissipation:	2,500 Watts
Maximum screen dissipation:	---
Maximum grid dissipation:	20 Watts
Frequency for max rating (CW):	500 MHz
Amplification factor:	125
Filament/cathode:	Oxide Coated
Voltage:	5.0 Volts
Current:	10.5 Amps
Capacitance: Grounded cathode	
Input:	--- pF
Output:	--- pF
Feedthrough:	--- pF
Capacitance: Grounded grid	
Input:	35.5 pF
Output:	12.4 pF
Feedthrough:	0.14 pF
Cooling:	Liquid
Base:	Coaxial
Air Socket:	---
Air Chimney:	---
Boiler:	---
Length:	3.68 in; 9.34 cm
Diameter:	2.25 in; 5.72 cm
Weight:	1.34 lb; 0.6 kg

BENEFITS:

- Worldwide brand name recognition
- Over 85 years technical expertise

APPLICATIONS:

- Industrial

		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 at 400 MHz	4,000	1.0	3,000	---	1.0	83	1.57
AB	Cathode Driven RF Linear Amplifier up to 30 MHz	4,000	1.0	3,500	---	0.97	50	2.03

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.

Communications & Power Industries

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.