

The 3CW2500C7/YU-157 is a rugged coaxial base power triode designed for use as a cathode driven Class AB2 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. Low grid interception of available emission current is due to the beam forming geometry of the special grid and cathode design.



CHARACTERISTICS

Plate Dissipation (Max.)	2,500 Watts
Screen Dissipation (Max.)	N/A
Grid Dissipation (Max.)	20 Watts
Frequency for Max. rating (CW)	500 MHz
Amplification Factor	125
Filament/Cathode	Oxide Cathode
Voltage	5.0 Volts
Current	10.5 Amps
Capacitance	Grounded Grid
Input	35.5 pf
Output	12.4 pf
Feedthrough	0.14 pf
Capacitance	N/A
Input	N/A
Output	N/A
Feedthrough	N/A
Cooling	Liquid
Base	Coaxial
Air Socket	N/A
Air Chimney	N/A
Boiler	N/A
Length	3.68 in; 9.34 cm
Diameter	2.25 in; 5.72 cm
Weight	1.34 lb; 0.6 kg

Class of Operation	Type of Service	MAXIMUM RATINGS		TYPICAL OPERATION				
		Plate Voltage (Volts)	Plate Current (Amps)	Plate Voltage (Volts)	Screen Voltage (Volts)	Plate Current (Amps)	Drive Power (Watts)	Output Power (kiloWatts)
C AB	Cathode Driven RF Amplifier at 400 MHz	4,000	1.0	3,000	---	1.0	83	1.57
	Cathode Driven RF Linear Amplifier up to 30 MHz	4,000	1.0	3,500	---	0.97	50	2.03

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 MPP products, visit our website at: www.cpii.com, or contact: CPI Microwave Products Division, Eimac Operation, 607 Hansen Way, Palo Alto, CA 94303
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