

The YU-113 is a planar triode intended for use as a high voltage series regulator or switch tube. The compact, low inductance package allows fast rise and fall times and very short pulse operation. The plate is conduction-cooled and rated at up to 1000 Watts when used with the proper heatsink. The maximum rated plate voltage is 55 kilovolts when immersed in suitable insulating oil or fluid. Solder tabs are supplied to facilitate connection to the heater, cathode and grid terminals.

CHARACTERISTICS

Plate Dissipation (Max.)	1,000 Watts
Screen Dissipation (Max.)	N/A
Grid Dissipation (Max.)	2 Watts
Frequency for Max. rating (CW)	N/A
Amplification Factor	750
Filament/Cathode	Tungsten Matrix
Voltage	6.3 Volts
Current	8.4 Amps
Capacitance	Grounded Cathode
Input	22 pf
Output	.03 pf
Feedthrough	5.5 pf
Capacitance	N/A
Input	N/A
Output	N/A
Feedthrough	N/A
Cooling	Forced Air or Liquid
Base	Solder Tabs
Air Socket	N/A
Air Chimney	N/A
Boiler	N/A
Length	2.685 in; 6.82 cm
Diameter	3.05 in; 7.74 cm
Weight	20 oz; 567 gm

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)
---	Switch Tube or Pulse Modulator	55,000	12	---	---	---	---	---

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
TELEPHONE: 1(800) 414-8823. **FAX:** (650) 592-9988 | **EMAIL:** powergrid@cpii.com