

The YU-114 is a planar triode intended for use as a switch tube and as a pulse modulator. The compact, low-inductance package allows fast rise and fall times and very short pulse operation. In air the max plate voltage is 15 kilovolts and in insulating oil it is 25 kilovolts. The plate is conduction-cooled and rated at 400 Watts when used with the proper heatsink. The YU-114 has solder tabs for making connection to the heater, cathode and grid terminals.

CHARACTERISTICS

Plate Dissipation (Max.)	400 Watts
Screen Dissipation (Max.)	N/A
Grid Dissipation (Max.)	2 Watts
Frequency for Max. rating (CW)	N/A
Amplification Factor	700
Filament/Cathode	Oxide
Voltage	6.3 Volts
Current	2.25 Amps
Capacitance	Grounded Cathode
Input	18 pf
Output	0.03 pf
Feedthrough	2.0 pf
Capacitance	N/A
Input	N/A
Output	N/A
Feedthrough	N/A
Cooling	Conduction
Base	Solder Tabs
Air Socket	N/A
Air Chimney	N/A
Boiler	N/A
Length	2.825 in; 7.18 cm
Diameter	1.33 in; 3.38 cm
Weight	2 oz; 56 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)
---	Pulse Modulator, in Air	15,000	10	---	---	---	---	---
---	Pulse Modulator, in Insulating Oil	25,000	10	---	---	---	---	---

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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