

The 4CX300A/8167 is a compact power tetrode having a maximum plate dissipation rating of 300 watts. The ceramic/metal construction and the internally utilized electrode structure combine to make the 4CX300A/8167 especially durable and free from mechanically induced noise under conditions of severe acceleration caused by shock or vibration.



## CHARACTERISTICS

Plate Dissipation (Max.)	300 Watts
Screen Dissipation (Max.)	12 Watts
Grid Dissipation (Max.)	2 Watts
Frequency for Max. rating (CW)	500 MHz
Amplification Factor	4.8
Filament/Cathode	Oxide Coated
Voltage	6.0 Volts
Current	2.9 Amps
Capacitance	Grounded Cathode
Input	29.0 pf
Output	4.0 pf
Feedthrough	.04 pf
Capacitance	---
Input	--- pf
Output	--- pf
Feedthrough	--- pf
Cooling	Forced Air
Base	Special, Breechblock
Air Socket	SK-700
Air Chimney	SK-606
Boiler	---
Length	2.50 in; 63.50 mm
Diameter	1.64 in; 41.60 mm
Weight	1.64 oz; 113 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)
C	RF Amplifier	2,000	0.25	2,000	250	0.25	2.9	0.390
C	RF amplifier at 500 MHz	2,000	0.25	2,000	250	0.25	---	0.225
C	RF amplifier plate modulated	1,500	0.20	1,500	250	0.20	1.7	0.235
AB1	RF linear amplifier	2,500	0.25	2,500	350	0.25	---	0.400
AB1	RF linear amplifier (AM service)	2,500	0.25	2,500	350	0.15	---	0.85

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 products, visit our website at: [www.cpii.com](http://www.cpii.com), or contact: CPI MPP Division, Eimac Operations, 607 Hansen Way, Palo Alto, CA 94303  
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