

The 3CW1750A7 is a water-cooled high-Mu triode intended for use as an rf amplifier in industrial applications where water cooling is preferred over air cooling. This tube is a water-cooled version of the 3CX1200A7.



## CHARACTERISTICS

Plate Dissipation (Max.)	1750 Watts
Screen Dissipation (Max.)	N/A
Grid Dissipation (Max.)	50 Watts
Frequency for Max. rating (CW)	110 MHz
Amplification Factor	200
Filament/Cathode	Thoriated Tungsten
Voltage	7.5 Volts
Current	21.0 Amps
Capacitance	Grounded Cathode
Input	20 pf
Output	0.2 pf
Feedthrough	12 pf
Capacitance	N/A
Input	N/A
Output	N/A
Feedthrough	N/A
Cooling	Water and Forced Air
Base	Special 5-pin
Air Socket	SK-2210
Air Chimney	N/A
Boiler	N/A
Length	5.4 in; 13.7 cm
Diameter	2.75 in; 6.99 cm
Weight	2.5 lb; 1.1 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)
AB	Cathode Driven RF Linear Amplifier	5,500	0.9	3,500	--	0.8	110	1.87
C	Cathode Driven RF Amplifier	5,500	0.9	5,000	--	0.8	43	2.7

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](http://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](mailto:powergrid@cpii.com)