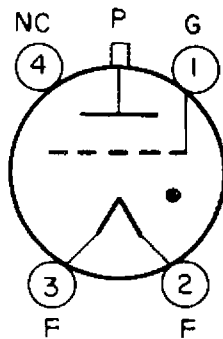


THYRATRON TYPE WL-7321/C6J/L

The WL-7321/C6J/L thyatron is a three-electrode, grid-controlled, Xenon-gas-filled rectifier with negative control characteristics. Cooling is obtained by unrestricted air convection, and the tube operates over a wide temperature range from -55 to +75 degrees Centigrade. The filamentary-type coated cathode is heated directly from a 2.5-Volt a-c supply. The WL-7321/C6J/L is designed for power-control applications where stable characteristics are necessary over a wide temperature range. The WL-7321/C6J/L is electrically similar to the WL-5685/C6JA and WL-6860/C6J/F.

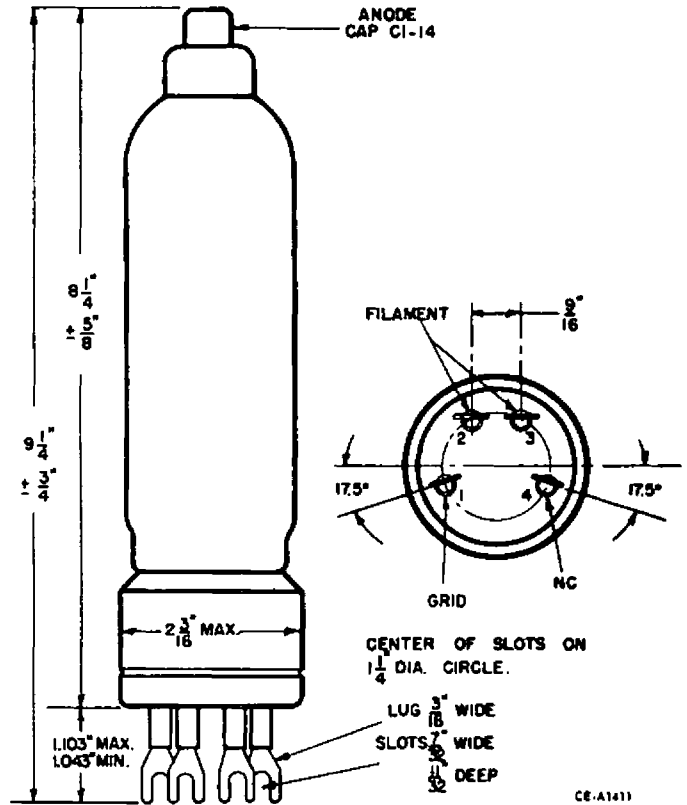
ELECTRICAL:	Min.	Bogey	Max.	
Filament, cathode directly heated				
Voltage	2.38	2.5	2.63	Volts
Current	19	21	23	Amp
Heating Time, approx.	60	-	-	Sec
Deionization Time, approx.	-	-	1000	u sec
Critical Grid Current	-	-	10	u amp
Critical Anode Voltage at Grid				
Voltage of +4 Volts	-	-	75	Volts
Negative Grid Voltage	-	-	100	Volts
Interelectrode Capacitance, approx.				
Grid to Anode	-	4	-	uuf
Grid to Filament	-	21	-	uuf
Typical Arc Voltage Drop	-	9	-	Volts
Critical Grid Voltage at Anode				
Voltage of 1000 Volts (See CE-A1138).	-3	-4.6	-6.2	Volts Negative
Control Characteristics				

MECHANICAL:	
Mounting Position	Vertical, base down
Overall Height, approx.	9-1/4"
Overall Diameter, approx.	2"
Type of Cooling	Air, unrestricted convection
Temperature Range	-55 to +75 °C
Bulb	T-16
Anode Cap	Medium Skirted JETEC C1-14
Base	Lug Size and Location per JETEC A4-90
Net Weight, approx.	7 oz
Shipping Weight, approx.	2 lb



BASE CONNECTIONS

G - Control Grid
 F - Filament
 P - Anode
 NC - No Connection



CE-A1137

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MAXIMUM RATINGS:

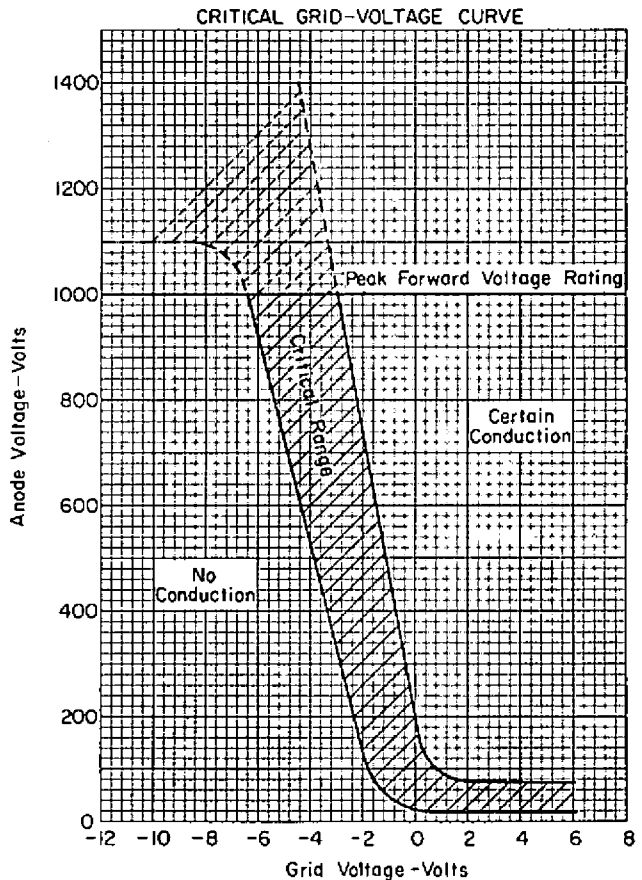
Absolute Values ■

Peak Anode Voltage, max.	
Forward	1000 Volts
Inverse	1250 Volts
Anode Current, max.	
Peak	77 Amp
Average, continuous	6.4 Amp
Average Overload (3 seconds), max.	12.8 Amp
Surge Current, maximum duration	
0.1 second	770 Amp
Temperature Range	-55 to +75 °C
Commutation Factor, max. †	0.66

▲ Filament, pin No. 2 should be negative with respect to pin No. 3 during the anode conduction period.

■ All of the ratings are for return connections to the center top of the filament transformer secondary.

† The commutation factor is defined as the product of the rate of current decay, immediately preceding the end of the commutation period, in amperes per microsecond and the rate of rise of the initial inverse voltage in volts per microsecond, or $CF = \text{amp}/\mu\text{sec} \times \text{volts}/\mu\text{sec}$.



CE-A1138

Shaded space between limiting curves represents the area of conduction and indicates variations which may be expected initially and throughout the life of the tube when operated within the specified temperature range.