

## THYRATRON TYPE WL-7269

The WL-7269 is a three-electrode mercury-vapor thyatron with negative control characteristics. The tube is designed for rectifier and industrial control service.

### ELECTRICAL:

	Min.	Bogey	Max.	
Filament Voltage . . . . .	4.75	5.00	5.25	Volts
Filament Current at Bogey Voltage . . . . .	4.50	5.00	5.50	Amp.
Cathode Heating Time* . . . . .	300	-	-	Sec.
Interelectrode Capacitance:				
Anode to Grid . . . . .	-	10	-	uuf
Deionization Time, approx. . . . .	-	1000	-	usec
Ionization Time, approx. . . . .	-	10	-	usec
Anode Voltage Drop . . . . .	-	15	-	Volts

### MECHANICAL:

Type of Cooling.▲ . . . . .	Air Convection		
Mounting Position . . . . .	Vertical, Base Down		
Net Weight, approx. . . . .	11	Ounces	
Shipping Weight, approx. . . . .	2	Pounds	

### MAXIMUM RATINGS:

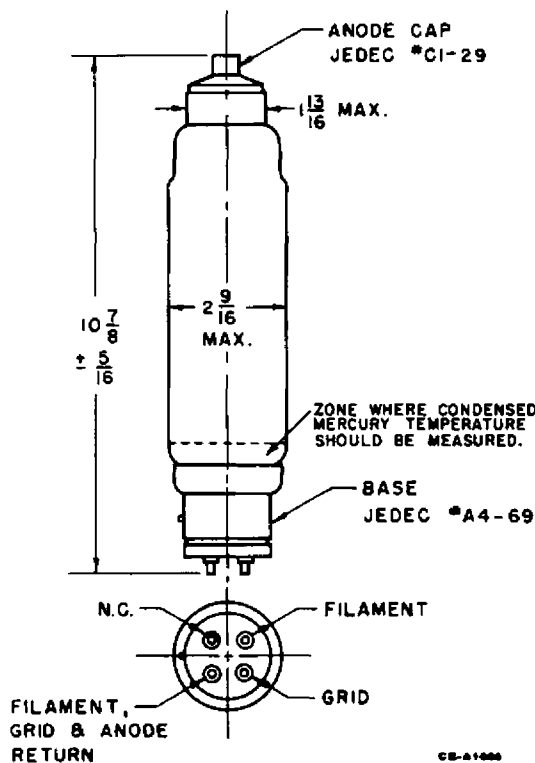
Absolute Values			
<b>Maximum Peak Anode Voltage:</b>			
Forward (see temperature range) . . . . .	15000	21000	Volts
Inverse (see temperature range) . . . . .	15000	21000	Volts
<b>Maximum Cathode Current:</b>			
Peak . . . . .	12.0	12.0	Amp.
Average . . . . .	3.2	3.2	Amp.
Surge (max. duration 0.1 second) . . . . .	50	50	Amp.
Max. Average Time§ . . . . .	1.0	1.0	Cycle
<b>Maximum Negative Control Grid Voltage:</b>			
Before Conduction . . . . .	-500	-500	Volts
During Conduction . . . . .	-10	-10	Volts
<b>Maximum Positive Control Grid Voltage:</b>			
Anode Negative . . . . .	10	10	Volts
<b>Maximum Positive Control Grid Current:</b>			
Peak . . . . .	1.0	1.0	Amp.
Average . . . . .	0.1	0.1	Amp.
Maximum Average Time§ . . . . .	1.0	1.0	Cycle
Condensed-Mercury Temperature Limits■ . . . . .	25-55	25-50	°C
Frequency Range . . . . .	25-150	25-150	cps
<b>Equilibrium Condensed-Mercury Temperature Rise Above Ambient:</b>			
No Load, approx. . . . .	9		°C

\* The minimum heating time refers only to the cathode. Sufficient additional time must be allowed, during cold-weather periods, to permit the condensed-mercury temperature to rise to the minimum condensed-mercury temperature limit.

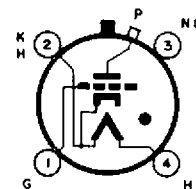
▲ Forced-air cooling will be required in many applications to maintain the condensed-mercury temperature within the specified condensed-mercury temperature limits.

■ The optimum condensed-mercury temperature limits for 20000-volt operation are 35-45° C. For 15000-volt operation the optimum limits are 35-50° C.

§ One period of the supply frequency.



CS-A-1400



### BASE CONNECTIONS

- H - Heater
- K - Cathode
- G - Grid
- NC - No Connection
- P - Anode

CE-A1403

### CONTROL CHARACTERISTICS

