

# THYRATRON TUBES

**NL-714 & NL-5557/715**  
**THYRATRON TUBES**  
**1 Ampere dc — 3 Amperes Peak**



NATIONAL POWER TUBE NL-714 is a quick heating industrial thyatron designed especially for timing control and regulated rectifier applications. It is gas and mercury filled for quick starting and constancy of characteristics within wide temperature limits.

NL-5557/715 has the same general characteristics, within its narrower temperature limits, but is filled with mercury only to permit use of the tube at higher voltages such as are found in the amateur radio transmitter application.

## NATIONAL ELECTRONICS, INC.

GENEVA, ILLINOIS, U. S. A.

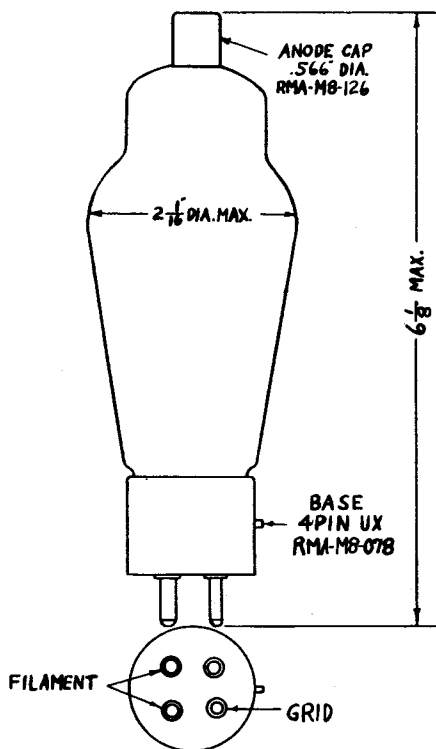
# NL-714 & NL-5557/715 THYRATRON TUBES

## TECHNICAL INFORMATION

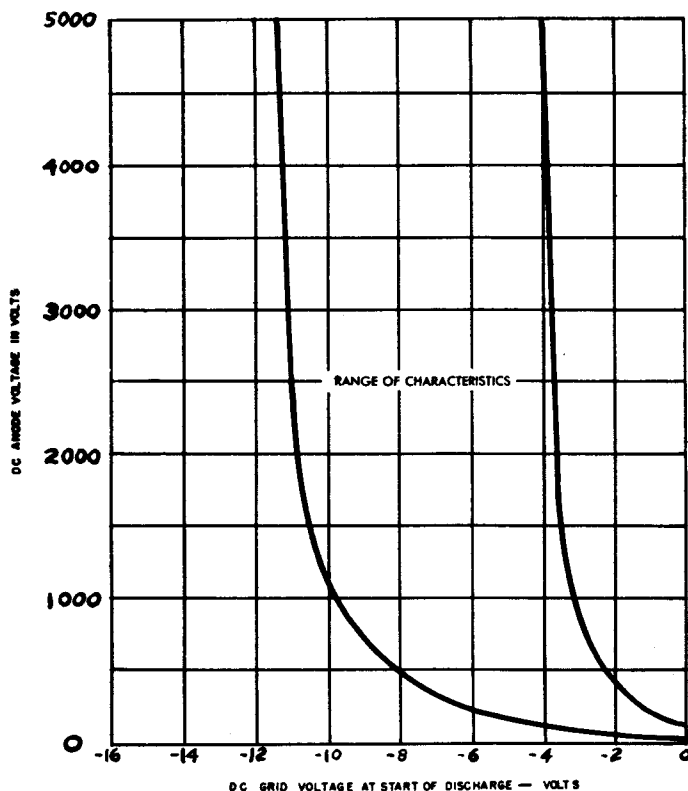
	NL-714	← NL-5557 / 715 →		
dc Amperes output (maximum)	1.0	.25	.5	1.0
Instantaneous Amperes output (maximum)	3	1	2	3
Maximum time of averaging anode current (seconds)	5	5	5	5
Maximum peak inverse volts	1250	10,000	5,000	1250
Maximum peak forward volts	1250	5,000	2,500	1250
Condensed mercury temperature limits (°C)	-40--+80	+40--+60	+40--+80	+40--+90
Filament volts	2.5			2.5
Filament amperes	5 ± .5			5 ± .5
Heating time (seconds)	5			5
Typical arc drop at 3 amperes peak (volts)	15			15
Grid control characteristic		See Curve		
Maximum negative grid voltage before conduction (volts)	500			500
Maximum negative grid voltage during conduction (volts)	10			10
Maximum critical grid current (microamps)	5			5
Ionization time (approx., microseconds)	10			10
Deionization time (approx., microseconds)	1000			1000
Anode to grid capacitance (uuf)	2			2
Maximum ac short circuit current (amperes)	50			50
Approx. temp. rise, cond. mercury above ambient (°C)	15			15
Mounting position		Vertical, base down		
Net weight (ounces)	3			3
Approx. shipping weight (lbs.)	3			3

ALL DATA ARE BASED ON RETURNS TO FILAMENT CENTER TAP  
**LIGHT FILAMENT BEFORE APPLYING LOAD**

**OUTLINE DRAWING**



**GRID CHARACTERISTIC**



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