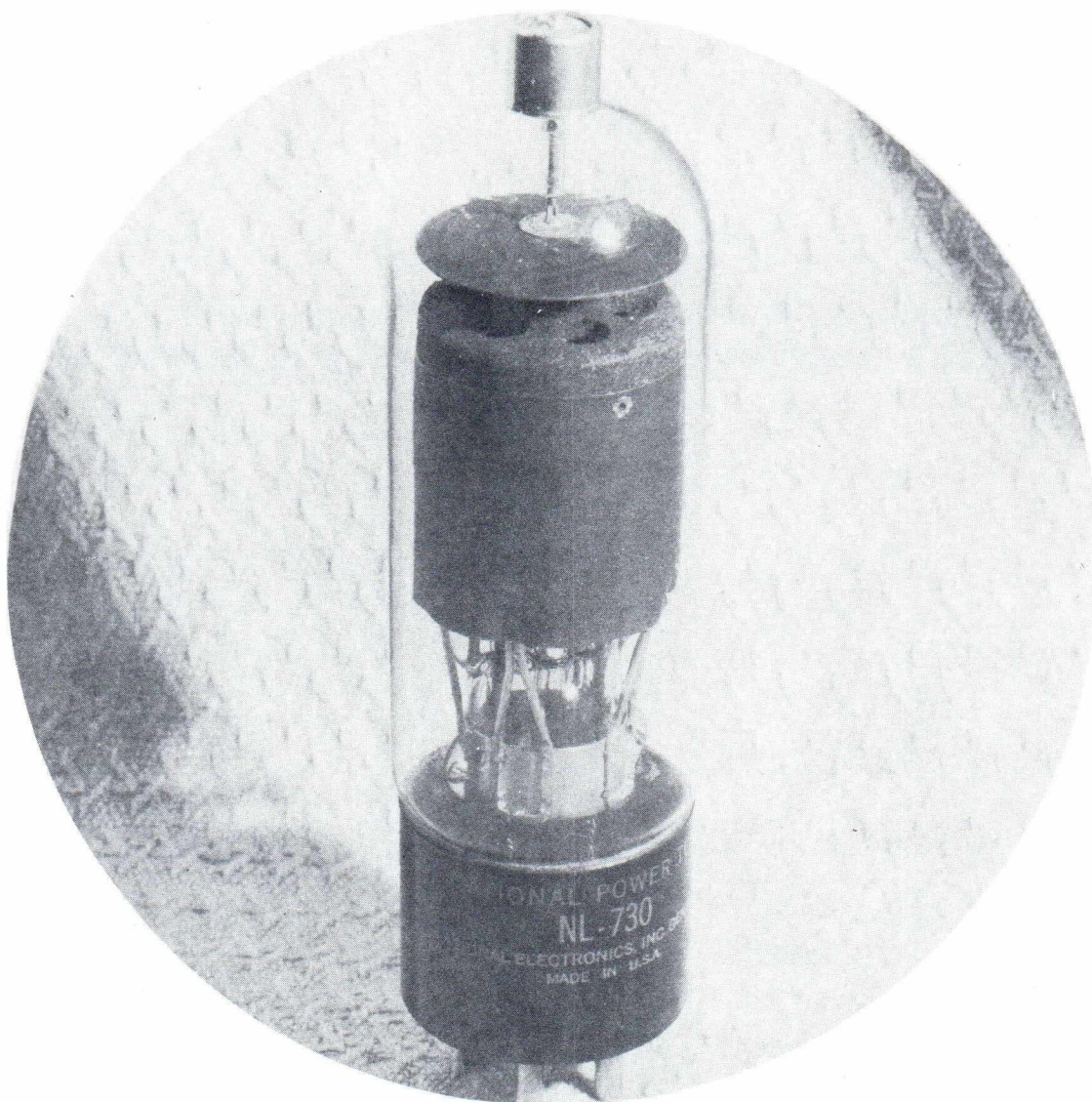


THYRATRON TUBES

NL-730

3.2 Amperes dc — 40 Amperes Peak



NATIONAL POWER TUBE NL-730 is a quick heating thyatron especially designed for motor speed control and regulated rectifier applications. It is gas and mercury filled to give quick starting, long life, and wide temperature limits.

NATIONAL ELECTRONICS, Inc.

GENEVA, ILLINOIS, U. S. A.

NL-730 THYRATRON TUBE

TECHNICAL INFORMATION

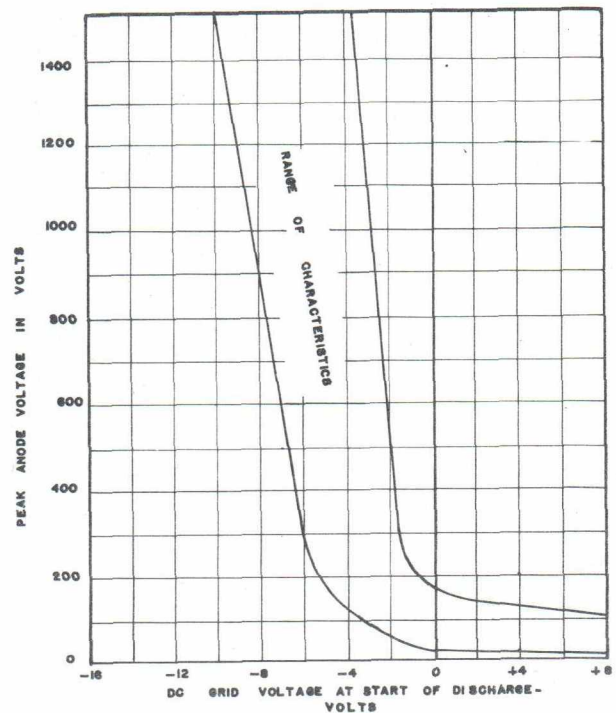
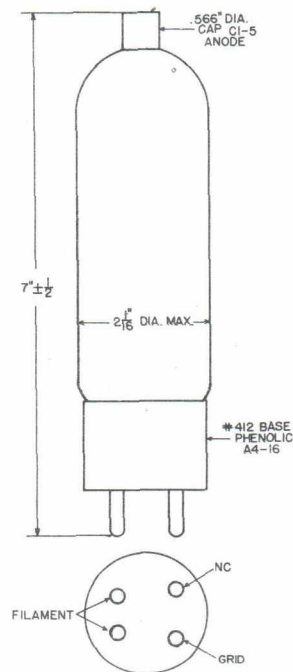
dc Amperes output (maximum)	3.2
Instantaneous Amperes output (maximum)	40
Maximum time of averaging anode current (seconds)	15
Maximum peak inverse volts	1500
Maximum peak forward volts	1500
Condensed mercury temperature limits (°C)* —40 to +80	
Filament volts	2.5
Filament amperes	12 ± 1.5
Filament heating time (seconds)	30
Typical arc drop at 12 amperes peak (volts)	12
Grid control characteristic	See Curve

Maximum negative grid voltage before conduction (volts)	500
Maximum negative grid voltage during conduction (volts)	10
Maximum critical grid current (microamps)	10
Ionization time (approx., microseconds)	10
Deionization time (approx., microseconds)	1000
Anode to grid capacitance (uuf)	4
Maximum ac short circuit current (amperes)	560
Approx. temp. rise, cond. mercury above ambient (°C) 30	
Mounting position	Vertical, base down
Net weight (ounces)	7
Approx. shipping weight (lbs.)	4

*The tube may be started and satisfactory operation will result between —40 and +80°C. For maximum life the condensed mercury temperature after warm-up should run between +40 and +80°C which corresponds to approximately +10 to +50°C ambient.

ALL DATA ARE BASED ON RETURNS TO FILAMENT TRANSFORMER CENTER TAP

OUTLINE DRAWING **GRID CHARACTERISTIC**



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