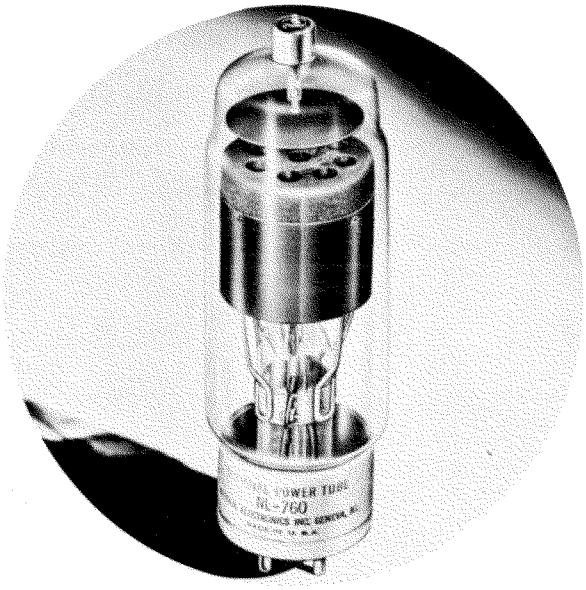
NL-760 & NL-761 THYRATRON TUBES

6.4 Amperes dc — 77 Amperes Peak



National Power Tube NL-760 is a quick heating industrial thyratron designed especially for welding control, motor speed control, and regulated rectifier applications. It is gas and mercury filled for quick starting, constancy of characteristics within wide temperature limits, and long life.

NL-761 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.

Both types are available with bracket type bases for panel mounting under type numbers NL-760P and NL-761P, and with the new National-designed lug type bases under type numbers NL-760L and NL-761L.

TECHNICAL INFORMATION

	NL-760	NL-761	
dc Amperes output (Maximum)	6.4	6.4	4.0
Instantaneous Amperes Output (Maximum)	77	77	30
Maximum time of averaging anode current (seconds)	15	15	15
Maximum peak inverse volts	1500	1500	5000
Maximum peak forward volts	1500	1500	2500
Condensed mercury temperature limits (°C)	—40 to +80*	+40 to +90	+40 to +65
Filament volts	2.5		
Filament amperes	21 ± 2		
Filament heating time (seconds)	60		
Typical arc drop at 20 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)	770		
Approx. temp. rise, cond. mercury above ambient (°C)	30		
Mounting position	Vertical, base down		
Net weight (ounces)	9		
Approximate shipping weight (lbs.)	5		

*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.

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NATIONAL ELECTRONICS, INC.
GENEVA, ILLINOIS, U. S. A.

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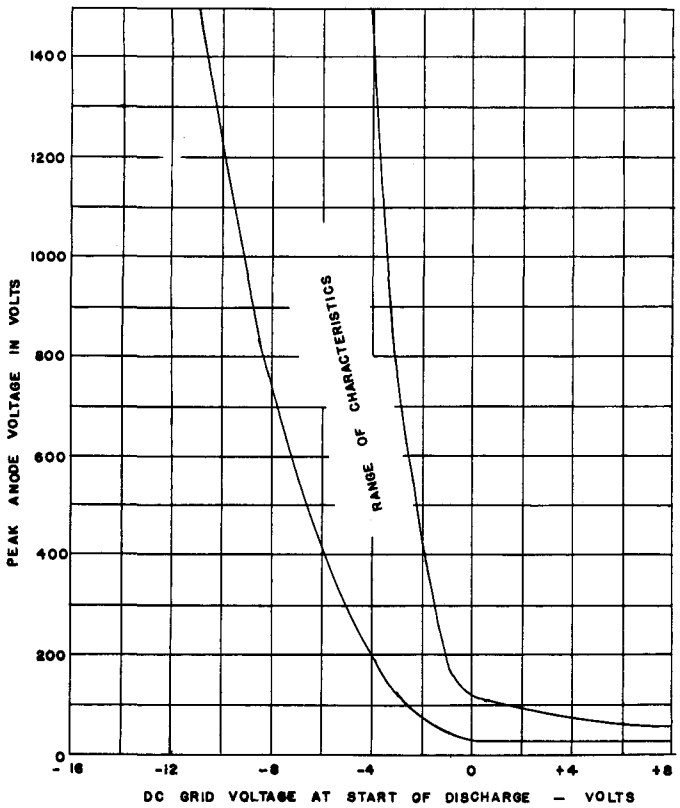

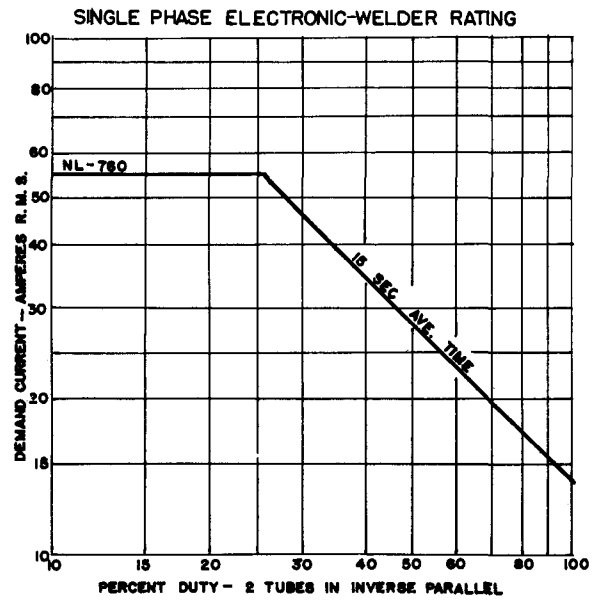

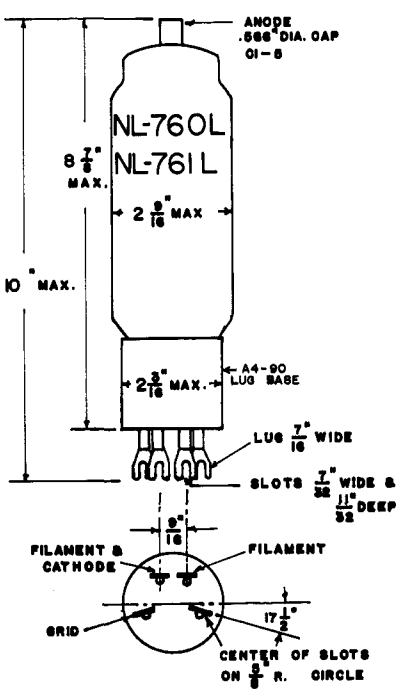

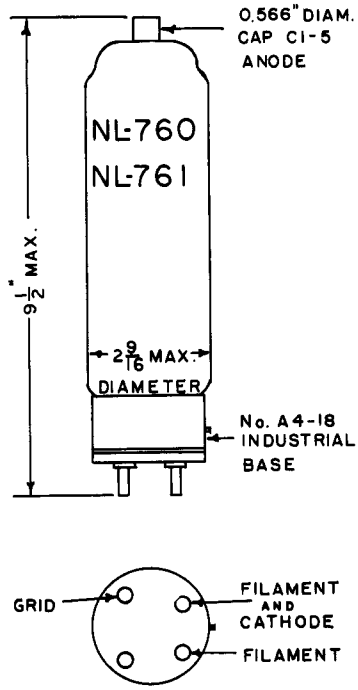

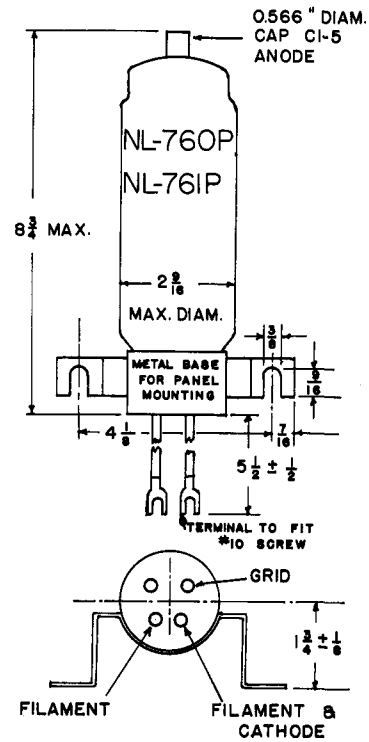

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