

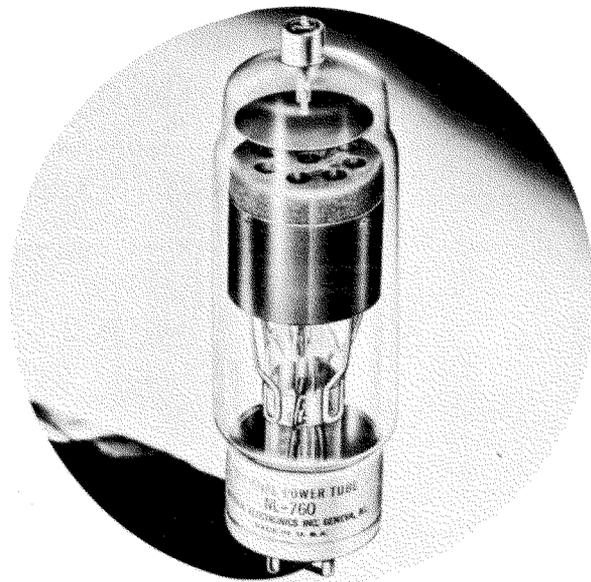
NL-760 & NL-761 THYRATRON TUBES

6.4 Amperes dc — 77 Amperes Peak

National Power Tube NL-760 is a quick heating industrial thyatron 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 | | |

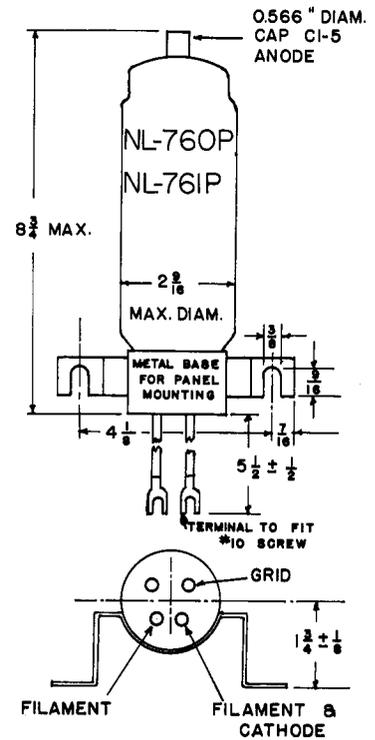
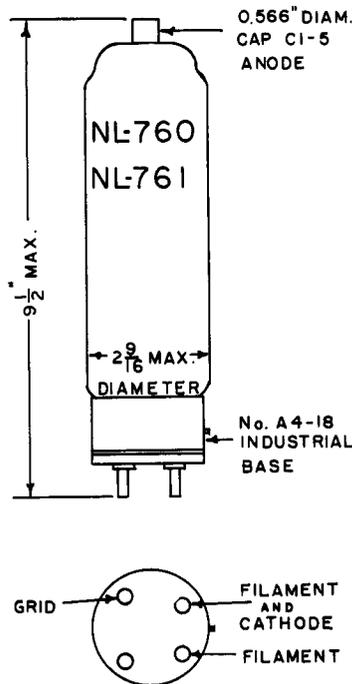
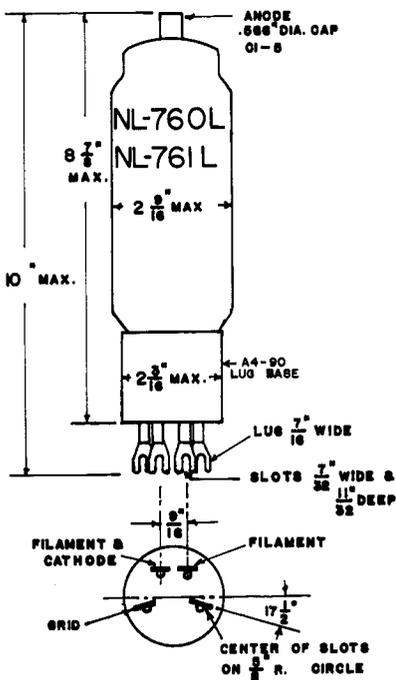
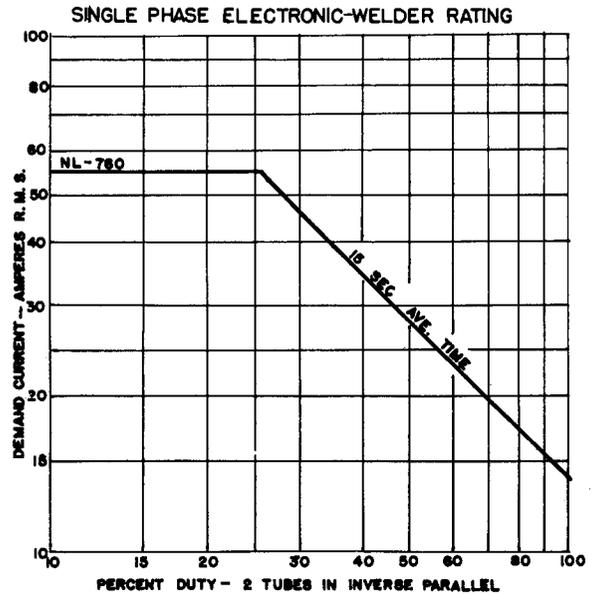
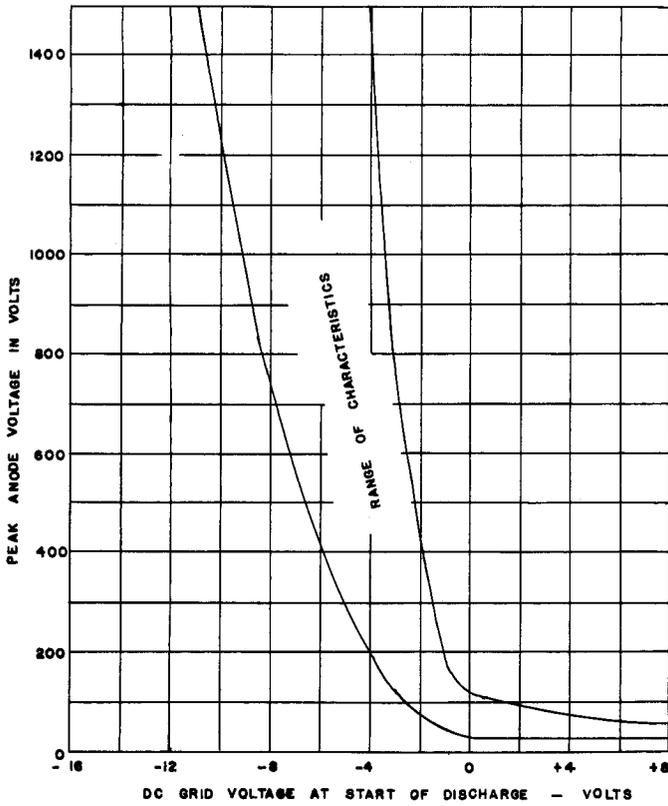
*The tube may be started and satisfactory operation will result between -40 and +80°C. For maximum life the condensed mercury temperature after warm-up should run between +40 and +80°C which corresponds to approximately +10 to +50°C ambient.

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NATIONAL ELECTRONICS, INC.

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