

ELECTRONIC TUBE REFERENCE

NL5560

Specialized - Thyatron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION  
CONSTRUCTION  
TRIODE

Indirectly heated mercury-vapor thyatron designed for control, timing, and ignitor-firing applications, with shield-grid construction supporting stable operation from high-impedance grid supplies.

GENERAL CHARACTERISTICS

|                     |                   |                      |               |
|---------------------|-------------------|----------------------|---------------|
| BASE DESIGNATION    | DOWN              | BASE PINS            | 4             |
| NOMINAL HEATER      | 5 V / 4.5 A       | PARALLEL HEATER      | – / –         |
| HEATING             | Indirect          | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Separate cathodes | SECTION CONSTRUCTION | Similar       |

SECTION RATINGS

|                                                                   |        |
|-------------------------------------------------------------------|--------|
| SECTION1 Triode                                                   |        |
| MAXIMUM PLATE VOLTAGE                                             | 1000 V |
| MAXIMUM CATHODE CURRENT                                           | 2.5 A  |
| PEAK INVERSE VOLTAGE                                              | 1000 V |
| NOMINAL OUTPUT CURRENT                                            | 2.5 A  |
| PEAK FORWARD CURRENT                                              | 15 A   |
| WARM-UP TIME                                                      | 300 s  |
| Thyatron section; published switching/rating data retained below. |        |

NATIONAL POWER TUBE NL-5560/FG95 is an indirectly heated cathode thyatron designed especially for control, timing, and ignitor firing applications. The shield grid construction and mercury vapor filling give stable operation even with high impedance grid supplies. NL-5560/FG95 THYRATRON TUBE TECHNICAL INFORMATION do Amperes output (maximum) 5\* 2.5 Instantaneous Amperes output (maximum) 30\* 15 Maximum time of averaging anode current (seconds) 15 Maximum peak inverse volts 1000 Maximum peak for

## SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

# 1956 National Electronics Industrial Tubes

Published test conditions and operating points. Values on this page are preserved as reported by this source.

## 1956 NATIONAL ELECTRONICS INDUSTRIAL TUBES

## Section 1 · Triode

| OTHER                                             |                   |                                                                       |
|---------------------------------------------------|-------------------|-----------------------------------------------------------------------|
| PARAMETER                                         | PUBLISHED VALUE   | CONDITION / NOTE                                                      |
| 2.5 Amperes do                                    | 15 Amperes Peak A | Source technical-information table; wording preserved from datasheet. |
| do Amperes output (maximum)                       | 5*   2.5 A        | Source technical-information table; wording preserved from datasheet. |
| Instantaneous Amperes output (maximum)            | 30*   15 A        | Source technical-information table; wording preserved from datasheet. |
| Maximum time of averaging anode current (seconds) | 15 A              | Source technical-information table; wording preserved from datasheet. |
| Maximum peak inverse volts                        | 1000 V            | Source technical-information table; wording preserved from datasheet. |
| Maximum peak forward volts                        | 1000 V            | Source technical-information table; wording preserved from datasheet. |
| Filament volts                                    | 5.0 j .25 V       | Source technical-information table; wording preserved from datasheet. |
| Filament amperes                                  | 4.5 ± .4 A        | Source technical-information table; wording preserved from datasheet. |
| Heating time (seconds)                            | 300 s             | Source technical-information table; wording preserved from datasheet. |
|                                                   |                   |                                                                       |

| PARAMETER                                                       | PUBLISHED VALUE     | CONDITION / NOTE                                                      |
|-----------------------------------------------------------------|---------------------|-----------------------------------------------------------------------|
| Maximum negative control grid voltage before conduction (volts) | <b>1000 V</b>       | Source technical-information table; wording preserved from datasheet. |
| Maximum negative control grid voltage during conduction (volts) | <b>10 V</b>         | Source technical-information table; wording preserved from datasheet. |
| Maximum negative shield grid voltage before conduction (volts)  | <b>300 V</b>        | Source technical-information table; wording preserved from datasheet. |
| Maximum negative shield grid voltage during conduction (volts)  | <b>5 V</b>          | Source technical-information table; wording preserved from datasheet. |
| Maximum control grid current (amperes)                          | <b>25 A</b>         | Source technical-information table; wording preserved from datasheet. |
| Maximum shield grid current (amperes)                           | <b>1 A</b>          | Source technical-information table; wording preserved from datasheet. |
| Maximum critical control grid current (microamperes)            | <b>1 A</b>          | Source technical-information table; wording preserved from datasheet. |
| Maximum ac short circuit current (amperes)                      | <b>200 A</b>        | Source technical-information table; wording preserved from datasheet. |
| Condensed mercury temperature limits (CC)                       | <b>+40 to +80 C</b> | Source technical-information table; wording preserved from datasheet. |
| Approximate temperature rise, cond. mercury above ambient (°C)  | <b>30 C</b>         | Source technical-information table; wording preserved from datasheet. |
| Net weight (ounces)                                             | <b>8 oz</b>         | Source technical-information table; wording preserved from datasheet. |
| Approx. shipping weight (lbs.)                                  | <b>4 lb</b>         | Source technical-information table; wording preserved from datasheet. |
| 'These ratings apply with heater voltage 5.5 ±                  | <b>5% Volts. V</b>  | Source technical-information table; wording preserved from datasheet. |
| CAP CI -5                                                       | <b>I   1000</b>     | Source technical-information table; wording preserved from datasheet. |
|                                                                 |                     |                                                                       |

| PARAMETER          | PUBLISHED VALUE                    | CONDITION / NOTE                                                      |
|--------------------|------------------------------------|-----------------------------------------------------------------------|
| 0                  | 800                                | Source technical-information table; wording preserved from datasheet. |
| CONTROL            | 40                                 | Source technical-information table; wording preserved from datasheet. |
| 24 -22 -20 -IS -IA | -14 -12 -10 -8 -6 -4 -2 0 2 4 a .s | Source technical-information table; wording preserved from datasheet. |
| 45!5 CATHODE-GRID  | 8                                  | Source technical-information table; wording preserved from datasheet. |

| CHARACTERISTIC                              |                 |                                                                       |
|---------------------------------------------|-----------------|-----------------------------------------------------------------------|
| PARAMETER                                   | PUBLISHED VALUE | CONDITION / NOTE                                                      |
| Typical arc drop at 10 amperes peak (volts) | 12 V            | Source technical-information table; wording preserved from datasheet. |
| Ionization time (approx., microseconds)     | 10 us           | Source technical-information table; wording preserved from datasheet. |
| Deionization time (approx., microseconds)   | 1000 us         | Source technical-information table; wording preserved from datasheet. |
| Anode to control grid capacitance (uuf)     | 0.2 pF          | Source technical-information table; wording preserved from datasheet. |
| Cathode to control grid capacitance (uuf)   | 4.4 pF          | Source technical-information table; wording preserved from datasheet. |



SOURCE DATA APPENDIX

## SOURCE OPERATING CONDITIONS

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# 1957 National Electronics

Published test conditions and operating points. Values on this page are preserved as reported by this source.

## 1957 NATIONAL ELECTRONICS

### Section 1 · Triode

| OTHER                        |                 |                  |
|------------------------------|-----------------|------------------|
| PARAMETER                    | PUBLISHED VALUE | CONDITION / NOTE |
| Maximum peak forward voltage | 1000 V          | —                |
| Maximum peak output current  | 15 A            | —                |

| PARAMETER                 | PUBLISHED VALUE | CONDITION / NOTE |
|---------------------------|-----------------|------------------|
| Maximum dc output current | 2.5 A           | —                |

| CHARACTERISTICS   |                 |                  |
|-------------------|-----------------|------------------|
| PARAMETER         | PUBLISHED VALUE | CONDITION / NOTE |
| Ionization time   | 10 us           | —                |
| Deionization time | 1000 us         | —                |

# TUBE TINKER

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and their source documents.

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