



## ELECTRONIC TUBE REFERENCE

530

Power - Triode (over 1000V 100W) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Power triode documented for amplifier or control service, with manufacturer operating data emphasizing useful power output rather than small-signal voltage amplification. Its available documentation does not justify a narrower specialized functional category.

## GENERAL CHARACTERISTICS

|                     |                   |                      |               |
|---------------------|-------------------|----------------------|---------------|
| BASE DESIGNATION    | —                 | BASE PINS            | —             |
| NOMINAL HEATER      | 7.5 V / 85 A      | PARALLEL HEATER      | — / —         |
| HEATING             | Direct            | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Separate cathodes | SECTION CONSTRUCTION | Similar       |

## SECTION RATINGS

|                                                                                                                                          |         |
|------------------------------------------------------------------------------------------------------------------------------------------|---------|
| SECTION 1 Triode                                                                                                                         |         |
| AMPLIFICATION FACTOR                                                                                                                     | 26      |
| MAXIMUM PLATE VOLTAGE                                                                                                                    | 15000 V |
| MAXIMUM PLATE DISSIPATION                                                                                                                | 8000 W  |
| <i>Published ratings and characteristics promoted where clearly applicable; additional source values retained as section parameters.</i> |         |

Water-cooled transmitting power triode with forced-air grid cooling for high-power pulsed RF service.

## SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

# 1947 Westinghouse

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

1947 WESTINGHOUSE

## Section 1 · Triode

**CHARACTERISTICS**

| PARAMETER                  | PUBLISHED VALUE | CONDITION / NOTE                       |
|----------------------------|-----------------|----------------------------------------|
| Heater or filament voltage | 7.5 V           | Published nominal/representative value |
| Heater or filament current | 85 A            | Published nominal/representative value |
| Amplification factor       | 26              | Published/promoted value               |
| Filament voltage range     | 7–8 V           | Published                              |
| Peak emission              | 80 A            | Minimum nominal peak emission          |
| Amplification factor       | 21–26           | Published range                        |

**OTHER**

| PARAMETER                   | PUBLISHED VALUE | CONDITION / NOTE |
|-----------------------------|-----------------|------------------|
| Maximum plate dissipation   | 8000 W          | Published        |
| Minimum pulse power output  | 75000 W         | Published        |
| Maximum operating frequency | 120 MHz         | Published        |

**CAPACITANCE**

| PARAMETER                    | PUBLISHED VALUE | CONDITION / NOTE |
|------------------------------|-----------------|------------------|
| Grid-to-plate capacitance    | 27 pF           | Maximum          |
| Grid-to-cathode capacitance  | 23 pF           | Maximum          |
| Plate-to-cathode capacitance | 4 pF            | Maximum          |

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