



## ELECTRONIC TUBE REFERENCE

# 6800

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

**1 SECTION**

CONSTRUCTION

**TRIODE**

Water-cooled thoriated-tungsten power triode for high-power RF amplification and industrial oscillators. Published industrial operation produces roughly 33 kW output, making it well suited to industrial heating generators and major transmitter equipment.

## GENERAL CHARACTERISTICS

|                     |                   |                      |               |
|---------------------|-------------------|----------------------|---------------|
| BASE DESIGNATION    | —                 | BASE PINS            | —             |
| NOMINAL HEATER      | 7.5 V / 100 A     | PARALLEL HEATER      | — / —         |
| HEATING             | Direct            | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Separate cathodes | SECTION CONSTRUCTION | Similar       |

## SECTION RATINGS

|                                                                                                    |         |
|----------------------------------------------------------------------------------------------------|---------|
| <b>SECTION1</b> Triode                                                                             |         |
| AMPLIFICATION FACTOR                                                                               | 19.5    |
| MAXIMUM PLATE DISSIPATION                                                                          | 20000 W |
| <i>Published transmitting-triode ratings and typical RF operation extracted from source table.</i> |         |

Water-cooled thoriated-tungsten high-power RF amplifier and industrial oscillator triode.

## SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

# 1963 Amperex Condensed

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

## 1963 AMPEREX CONDENSED

## Section 1 · Triode

| OTHER                     |                 |                       |
|---------------------------|-----------------|-----------------------|
| PARAMETER                 | PUBLISHED VALUE | CONDITION / NOTE      |
| Maximum plate dissipation | 20000 W         | —                     |
| Typical plate voltage     | 12500 V         | RF industrial service |
| Typical plate current     | 3.5 A           | RF industrial service |
| Typical power output      | 33000 W         | RF industrial service |
| Typical grid voltage      | -1200 V         | RF industrial service |
| Typical grid current      | 250 mA          | RF industrial service |
| Grid full-input power     | 22.5 W          | RF industrial service |

| CHARACTERISTIC                |                 |                  |
|-------------------------------|-----------------|------------------|
| PARAMETER                     | PUBLISHED VALUE | CONDITION / NOTE |
| Grid-to-plate capacitance     | 26 pF           | —                |
| Grid-to-filament capacitance  | 25 pF           | —                |
| Plate-to-filament capacitance | 1 pF            | —                |