



## ELECTRONIC TUBE REFERENCE

8119

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Forced-air-cooled coaxial ceramic transmitting triode for RF amplification, oscillation, and frequency multiplication. Approximately 400 W plate dissipation and low-capacitance construction support substantial transmitter output through the UHF region, approaching 900 MHz.

## GENERAL CHARACTERISTICS

|                     |                   |                      |               |
|---------------------|-------------------|----------------------|---------------|
| BASE DESIGNATION    | —                 | BASE PINS            | —             |
| NOMINAL HEATER      | 3.4 V / 19 A      | PARALLEL HEATER      | — / —         |
| HEATING             | Direct            | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Separate cathodes | SECTION CONSTRUCTION | Similar       |

## SECTION RATINGS

|                                                                                                                |       |
|----------------------------------------------------------------------------------------------------------------|-------|
| SECTION 1 Triode                                                                                               |       |
| AMPLIFICATION FACTOR                                                                                           | 33    |
| MAXIMUM PLATE DISSIPATION                                                                                      | 400 W |
| Forced-air-cooled coaxial ceramic transmitting triode for HF/UHF amplifier, oscillator and multiplier service. |       |

Forced-air-cooled coaxial ceramic transmitting triode for HF/UHF amplifier, oscillator and multiplier service.

## 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      |
| Plate voltage                      | 2000 V          | RFPower               |
| Plate current                      | 400 mA          | RFPower               |
| Power output                       | 510 W           | RFPower               |
| Grid voltage                       | -140 V          | RFPower               |
| Grid current                       | 120 mA          | RFPower               |
| Maximum frequency                  | 900 MHz         | RFPower               |
| Additional published output figure | 85 W            | Published as 510 + 85 |

| CAPACITANCE                   |                 |                  |
|-------------------------------|-----------------|------------------|
| PARAMETER                     | PUBLISHED VALUE | CONDITION / NOTE |
| Grid-to-plate capacitance     | 6.5 pF          | —                |
| Input capacitance             | 11.5 pF         | —                |
| Output capacitance            | ('<', 0.12) pF  | —                |
| Plate-to-filament capacitance | —0.12 pF        | —                |