



## ELECTRONIC TUBE REFERENCE

## YL1055

Power - Tetrode (NOT beam) (over 1000V 100W) electronic tube

CONSOLIDATED TECHNICAL  
DATA

**1 SECTION**  
CONSTRUCTION  
**TETRODE**

Coaxial forced-air-cooled metal-ceramic tetrode for television sound transmitters and translators. Designed for broadcast RF operation through the UHF television bands, it provides high transconductance and substantial output in professional transmitter final stages.

## GENERAL CHARACTERISTICS

|                     |                   |                      |               |
|---------------------|-------------------|----------------------|---------------|
| BASE DESIGNATION    | —                 | BASE PINS            | —             |
| NOMINAL HEATER      | 3.8 V / 19.5 A    | PARALLEL HEATER      | — / —         |
| HEATING             | Indirect          | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Separate cathodes | SECTION CONSTRUCTION | Similar       |

## SECTION RATINGS

|                            |         |
|----------------------------|---------|
| <b>SECTION 1</b> Tetrode   |         |
| TRANSCONDUCTANCE           | 0.055 S |
| AMPLIFICATION FACTOR       | 11      |
| MAXIMUM PLATE VOLTAGE      | 3000 V  |
| MAXIMUM SCREEN VOLTAGE     | 650 V   |
| MAXIMUM PLATE DISSIPATION  | 1800 W  |
| MAXIMUM SCREEN DISSIPATION | 20 W    |
| MAXIMUM GRID DISSIPATION   | 3 W     |
| MAXIMUM CATHODE CURRENT    | 800 mA  |

Coaxial forced-air-cooled metal-ceramic transmitter tetrode for television sound transmitters and translators.

## SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

# 1963 Siemens

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

## 1963 SIEMENS

## Section 1 · Tetrode

| CHARACTERISTIC         |                 |                             |
|------------------------|-----------------|-----------------------------|
| PARAMETER              | PUBLISHED VALUE | CONDITION / NOTE            |
| Typical Plate Voltage  | 2500 V          | Transconductance test point |
| Typical Screen Voltage | 500 V           | Transconductance test point |
| Typical Plate Current  | 500 mA          | Transconductance test point |

| CAPACITANCE                      |                 |                  |
|----------------------------------|-----------------|------------------|
| PARAMETER                        | PUBLISHED VALUE | CONDITION / NOTE |
| CathodeControlGridCapacitance    | 38–46 pF        | Nominal          |
| CathodeScreenGridCapacitance     | 1.9–2.5 pF      | Nominal          |
| ControlGridScreenGridCapacitance | 56–64 pF        | Nominal          |

| OTHER        |                 |                                   |
|--------------|-----------------|-----------------------------------|
| PARAMETER    | PUBLISHED VALUE | CONDITION / NOTE                  |
| FrequencyMax | 860 MHz         | —                                 |
| OutputPower  | 800 W           | TV sound transmitter; 170-230 MHz |
| PowerGain    | 19— dB          | TV sound transmitter; 170-230 MHz |