



## ELECTRONIC TUBE REFERENCE

## YL1100

Power - Beam (NOT sweep) electronic tube

CONSOLIDATED TECHNICAL DATA

## 1 SECTION

CONSTRUCTION

## BEAMPOWER

Mullard UHF beam-power tetrode for RF amplification, oscillation, and frequency multiplication to approximately 1.2 GHz, delivering about 40 W at 1.2 GHz.

## GENERAL CHARACTERISTICS

|                     |                   |                      |               |
|---------------------|-------------------|----------------------|---------------|
| BASE DESIGNATION    | —                 | BASE PINS            | —             |
| NOMINAL HEATER      | 26.5 V / 520 mA   | PARALLEL HEATER      | — / —         |
| HEATING             | Indirect          | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Separate cathodes | SECTION CONSTRUCTION | Similar       |

## SECTION RATINGS

|                                 |         |
|---------------------------------|---------|
| SECTION 1 Beam Power            |         |
| TRANSCONDUCTANCE                | 0.016 S |
| AMPLIFICATION FACTOR            | 18      |
| MAXIMUM PLATE VOLTAGE           | 1000 V  |
| MAXIMUM SCREEN VOLTAGE          | 300 V   |
| MAXIMUM PLATE DISSIPATION       | 115 W   |
| MAXIMUM SCREEN DISSIPATION      | 4.5 W   |
| UHF beam-power tetrode section. |         |

The Mullard YL1100 is a radiation-cooled UHF beam-power tetrode in the YL1100 family for RF power, oscillator and frequency-multiplier service.

## SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

# 1963 Mullard

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

## 1963 MULLARD

## Section 1 · Beam Power

| OTHER                                  |                 |                  |
|----------------------------------------|-----------------|------------------|
| PARAMETER                              | PUBLISHED VALUE | CONDITION / NOTE |
| Maximum Operating Frequency            | 1200 MHz        | —                |
| Maximum Plate Voltage                  | 1000 V          | ClassC           |
| Maximum Plate Dissipation              | 115 W           | —                |
| RF Load Power                          | 80 W            | ClassC; 400MHz   |
| RF Load Power                          | 40 W            | ClassC; 1200MHz  |
| Television Linear Amplifier Load Power | 13 W            | ClassAB1; 790MHz |

## TUBE TINKER

An independent reference for electronic tubes, vacuum tubes, and their source documents.

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