



ELECTRONIC TUBE REFERENCE

DET19

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

TRIODE-TRIODE

Twin low-power transmitting triode for push-pull RF amplification, oscillation, and frequency multiplication. Its matched sections and low capacitances provide a compact balanced power stage with useful operation to approximately 250 MHz.

GENERAL CHARACTERISTICS

|                     |                   |                      |               |
|---------------------|-------------------|----------------------|---------------|
| BASE DESIGNATION    | —                 | BASE PINS            | —             |
| NOMINAL HEATER      | 6.3 V / 800 mA    | PARALLEL HEATER      | — / —         |
| HEATING             | Indirect          | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Separate cathodes | SECTION CONSTRUCTION | Similar       |

SECTION RATINGS

|                                                                                                                                                                                                   |         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| SECTION1 Triode                                                                                                                                                                                   |         |
| PLATE RESISTANCE                                                                                                                                                                                  | 3340 Ω  |
| TRANSCONDUCTANCE                                                                                                                                                                                  | 0.021 S |
| AMPLIFICATION FACTOR                                                                                                                                                                              | 7       |
| MAXIMUM PLATE VOLTAGE                                                                                                                                                                             | 300 V   |
| MAXIMUM PLATE DISSIPATION                                                                                                                                                                         | 5 W     |
| MAXIMUM CATHODE CURRENT                                                                                                                                                                           | 40 mA   |
| Applicable promoted ratings mapped semantically from the printed approximate-data/ratings tables; useful non-promoted operating, capacitance and service data retained in TUBE_SECTION_PARAMETER. |         |

| SECTION2 Triode           |               |
|---------------------------|---------------|
| PLATE RESISTANCE          | 3340 $\Omega$ |
| TRANSCONDUCTANCE          | 0.021 S       |
| AMPLIFICATION FACTOR      | 7             |
| MAXIMUM PLATE VOLTAGE     | 300 V         |
| MAXIMUM PLATE DISSIPATION | 5 W           |
| MAXIMUM CATHODE CURRENT   | 40 mA         |

Low-power twin transmitting triode for push-pull power amplifier, oscillator and frequency-multiplier service to 250 MHz; identical sections represented once.

## SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

# 1955 Marconi

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

## 1955 MARCONI

## Section 1 · Triode

| OTHER                                         |                 |                  |
|-----------------------------------------------|-----------------|------------------|
| PARAMETER                                     | PUBLISHED VALUE | CONDITION / NOTE |
| Plate Resistance                              | 3340 ohm        | —                |
| Heater-Cathode Voltage<br>Maximum             | 100 V           | —                |
| Anode-Anode Capacitance                       | 1 pF            | —                |
| Anode-Grid Capacitance                        | 2.3 pF          | —                |
| Anode-Cathode Capacitance                     | 0.6 pF          | —                |
| Grid-Cathode Capacitance                      | 4.2 pF          | —                |
| Frequency Maximum                             | 250 MHz         | —                |
| Push-Pull Plate Current<br>Maximum            | 80 mA           | ClassC;PushPull  |
| Total Plate Dissipation<br>Maximum            | 10 W            | BothTriodes      |
| Typical Frequency Doubler<br>Output Frequency | 14 MHz          | FrequencyDoubler |

## TUBE TINKER

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and their source documents.

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