



## ELECTRONIC TUBE REFERENCE

## Z759

Voltage - Pentode electronic tube

CONSOLIDATED TECHNICAL DATA

## 1 SECTION

CONSTRUCTION

## PENTODE

High-slope short-base pentode designed for video and wide-band amplification. Marconi documentation identifies it as a broadband signal tube for circuits requiring high transconductance and substantial frequency response.

## GENERAL CHARACTERISTICS

|                     |                   |                      |               |
|---------------------|-------------------|----------------------|---------------|
| BASE DESIGNATION    | —                 | BASE PINS            | 9             |
| NOMINAL HEATER      | 6.3 V / 600 mA    | PARALLEL HEATER      | — / —         |
| HEATING             | Indirect          | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Separate cathodes | SECTION CONSTRUCTION | Similar       |

## SECTION RATINGS

|                            |                 |
|----------------------------|-----------------|
| SECTION 1 Pentode          |                 |
| PLATE RESISTANCE           | 500000 $\Omega$ |
| TRANSCONDUCTANCE           | 0.015 S         |
| MAXIMUM PLATE VOLTAGE      | 300 V           |
| MAXIMUM SCREEN VOLTAGE     | 250 V           |
| MAXIMUM PLATE DISSIPATION  | 5 W             |
| MAXIMUM SCREEN DISSIPATION | 1.5 W           |

High-slope short-base pentode for video and wide-band amplification.

## 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 · Pentode

| CHARACTERISTIC          |                 |                  |
|-------------------------|-----------------|------------------|
| PARAMETER               | PUBLISHED VALUE | CONDITION / NOTE |
| Heater/Filament Voltage | 6.3 V           | —                |
| Heater/Filament Current | 600 mA          | —                |
| Transconductance        | 15000 $\mu$ S   | —                |
| Plate Resistance        | 500000 ohm      | —                |

| OTHER                            |                 |                  |
|----------------------------------|-----------------|------------------|
| PARAMETER                        | PUBLISHED VALUE | CONDITION / NOTE |
| Maximum/Published Anode Voltage  | 300 V           | —                |
| Maximum/Published Screen Voltage | 250 V           | —                |
| Maximum Anode Dissipation        | 5 W             | —                |
| Maximum Screen Dissipation       | 1.5 W           | —                |

| CAPACITANCE            |                 |                  |
|------------------------|-----------------|------------------|
| PARAMETER              | PUBLISHED VALUE | CONDITION / NOTE |
| Grid-Anode Capacitance | 0.007 pF        | —                |
| Input Capacitance      | 13 pF           | —                |
| Output Capacitance     | 25 pF           | —                |

## TUBE TINKER

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and their source documents.

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