

ELECTRONIC TUBE REFERENCE

DH77

Voltage - Triode (with diode, heptode or hexode) electronic tube

CONSOLIDATED TECHNICAL DATA

3 SECTIONS  
CONSTRUCTION  
DIODE-DIODE-TRIODE

Double-diode high-mu triode combining receiver detection with low-frequency voltage amplification. Two separate diode elements accommodate detection and control-signal duties while the triode provides useful gain for the recovered audio signal.

GENERAL CHARACTERISTICS

|                     |                   |                      |               |
|---------------------|-------------------|----------------------|---------------|
| BASE DESIGNATION    | —                 | BASE PINS            | —             |
| NOMINAL HEATER      | 6.3 V / 300 mA    | PARALLEL HEATER      | — / —         |
| HEATING             | Indirect          | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Separate cathodes | SECTION CONSTRUCTION | Dissimilar    |

SECTION RATINGS

|                                                                                                                                                                        |          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| SECTION1 Triode                                                                                                                                                        |          |
| PLATE RESISTANCE                                                                                                                                                       | 58000 Ω  |
| TRANSCONDUCTANCE                                                                                                                                                       | 0.0012 S |
| AMPLIFICATION FACTOR                                                                                                                                                   | 70       |
| MAXIMUM PLATE VOLTAGE                                                                                                                                                  | 250 V    |
| Triode section. Diode ratings and capacitances are retained in parameters because only one representative technical section row is emitted in this compact extraction. |          |

|                                                                                |  |
|--------------------------------------------------------------------------------|--|
| SECTION2 Diode                                                                 |  |
| No fixed ratings recorded.                                                     |  |
| Physical diode section added during approved section-structure reconciliation. |  |

### SECTION3 Diode

*No fixed ratings recorded.*

*Physical diode section added during approved section-structure reconciliation.*

The Marconi DH77 is a miniature indirectly heated double-diode-triode for detector and low-frequency amplifier service.



## 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 |
| Heater voltage               | 6.3 V           | —                |
| Heater current               | 300 mA          | —                |
| Triode maximum plate voltage | 250 V           | TriodeSection    |

| CHARACTERISTIC              |                 |                  |
|-----------------------------|-----------------|------------------|
| PARAMETER                   | PUBLISHED VALUE | CONDITION / NOTE |
| Triode amplification factor | 70              | TriodeSection    |
| Triode transconductance     | 1200 $\mu$ S    | TriodeSection    |
| Triode plate resistance     | 58000 ohm       | TriodeSection    |

| CONSTRUCTION          |                 |                  |
|-----------------------|-----------------|------------------|
| PARAMETER             | PUBLISHED VALUE | CONDITION / NOTE |
| Physical diode count  | 2               | —                |
| Physical triode count | 1               | —                |

## TUBE TINKER

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