



## ELECTRONIC TUBE REFERENCE

## WE19

Voltage Radio Detector Converter electronic tube

CONSOLIDATED TECHNICAL DATA

3 SECTIONS

CONSTRUCTION

DIODE-DIODE-PENTODE

Double-diode variable-mu pentode combining IF amplification, detection, and automatic gain control, with a remote-cutoff pentode and two physical detector-diode sections.

## GENERAL CHARACTERISTICS

|                     |                   |                      |               |
|---------------------|-------------------|----------------------|---------------|
| BASE DESIGNATION    | —                 | BASE PINS            | —             |
| NOMINAL HEATER      | 6.3 V / 200 mA    | PARALLEL HEATER      | — / —         |
| HEATING             | Indirect          | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Separate cathodes | SECTION CONSTRUCTION | Dissimilar    |

## SECTION RATINGS

## SECTION1 Diode

*No fixed ratings recorded.*

*Representative detector diode section.*

## SECTION2 Pentode

|                        |                  |
|------------------------|------------------|
| PLATE RESISTANCE       | 1500000 $\Omega$ |
| TRANSCONDUCTANCE       | 0.0018 S         |
| MAXIMUM PLATE VOLTAGE  | 250 V            |
| MAXIMUM SCREEN VOLTAGE | 100 V            |

*Variable-mu IF pentode.*

### SECTION3 Diode

*No fixed ratings recorded.*

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

The WE19 combines a variable-mu IF pentode with two detector diodes for amplification, detection, and AGC.

## SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

# 1959 Telefunken

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

## 1959 TELEFUNKEN

## Section 2 · Pentode

| CHARACTERISTICS  |                 |                  |
|------------------|-----------------|------------------|
| PARAMETER        | PUBLISHED VALUE | CONDITION / NOTE |
| Plate Voltage    | 250 V           | —                |
| Screen Voltage   | 100 V           | —                |
| Plate Current    | 5 mA            | —                |
| Screen Current   | 1.8 mA          | —                |
| Transconductance | 1800 $\mu$ S    | —                |
| Control Range    | 100 ratio       | —                |