ELECTRONIC TUBE REFERENCE

# SP13C

Voltage - Radio Detector Converter electronic tube

CONSOLIDATED TECHNICAL DATA
**1 SECTION**
CONSTRUCTION
**PENTODE**

Mullard straight high-frequency pentode for RF amplification, detector service, and low-frequency amplification. High transconductance and exceptionally high plate resistance provide substantial gain across several receiver signal-processing roles.

## General characteristics

| | | | |
|---|---|---|---|
| **BASE DESIGNATION** | – | **BASE PINS** | – |
| **NOMINAL HEATER** | 13 V / 200 mA | **PARALLEL HEATER** | – / – |
| **HEATING** | Indirect | **SERIES OPERATION** | Not specified |
| **CATHODE ARRANGEMENT** | Separate cathodes | **SECTION CONSTRUCTION** | Similar |

## Section ratings

**SECTION1** Pentode

| | |
|---|---|
| **PLATE RESISTANCE** | 2900000 Ω |
| **TRANSCONDUCTANCE** | 0.0028 S |
| **MAXIMUM PLATE VOLTAGE** | 200 V |
| **MAXIMUM SCREEN VOLTAGE** | 200 V |
| **MAXIMUM PLATE DISSIPATION** | 1 W |
| **MAXIMUM SCREEN DISSIPATION** | 0.3 W |
| **MAXIMUM CATHODE CURRENT** | 6 mA |

*HF receiving pentode.*

The Mullard SP13C is a straight high-frequency pentode for RF, detector, and low-frequency amplifier service.

SOURCE OPERATING CONDITIONS

# 1963 Mullard

SOURCE PDF

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

1963 MULLARD

## Section 1 · Pentode

| CHARACTERISTICS | | |
|---|---|---|
| **PARAMETER** | **PUBLISHED VALUE** | **CONDITION / NOTE** |
| Heater Voltage | **13 V** | — |
| Heater Current | **200 mA** | — |
| Heating Time | **60 s** | — |
| Plate Voltage | **200 V** | RFAmplifier |
| Screen Voltage | **200 V** | RFAmplifier |
| Plate Current | **2.5 mA** | RFAmplifier |
| Transconductance | **2800 uS** | RFAmplifier |
| Plate Resistance | **2900000 ohm** | RFAmplifier |
| Amplification Factor | **7000 ratio** | RFAmplifier |
| Plate-Grid Capacitance Maximum | **0.003 pF** | — |

| OTHER | | |
|---|---|---|
| **PARAMETER** | **PUBLISHED VALUE** | **CONDITION / NOTE** |
| Maximum Plate Voltage | **200 V** | — |
| Maximum Plate Dissipation | **1 W** | — |
| Maximum Cathode Current | **6 mA** | — |
| Maximum Screen Voltage | **200 V** | — |
| Maximum Screen Dissipation | **0.3 W** | — |

TUBE TINKER

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

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