



ELECTRONIC TUBE REFERENCE

SP13

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 voltage amplification. Its broad application range allows several receiver functions from one series-heater tube type.

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

SECTION 1 Pentode	
PLATE RESISTANCE	1300000 Ω
TRANSCONDUCTANCE	0.0022 S
MAXIMUM PLATE VOLTAGE	200 V
MAXIMUM SCREEN VOLTAGE	100 V
MAXIMUM PLATE DISSIPATION	1 W
MAXIMUM SCREEN DISSIPATION	0.3 W
MAXIMUM CATHODE CURRENT	6 mA
<i>HF receiving pentode.</i>	

The Mullard SP13 is a straight high-frequency pentode for RF, detector, and low-frequency amplifier service.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1963 Mullard

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	RF Amplifier
Screen Voltage	100 V	RF Amplifier
Plate Current	3.3 mA	RF Amplifier
Transconductance	2200 μ S	RF Amplifier
Plate Resistance	1300000 ohm	RF Amplifier
Amplification Factor	3000 ratio	RF Amplifier
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	100 V	—