

ELECTRONIC TUBE REFERENCE

PL38

Power - TV Horizontal Output (sweep) electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
PENTODE

Series-heater line-output pentode designed for television horizontal time-base service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	8
NOMINAL HEATER	30 V / 300 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Pentode	
PLATE RESISTANCE	20000 Ω
TRANSCONDUCTANCE	0.0135 S
MAXIMUM PLATE VOLTAGE	800 V
MAXIMUM SCREEN VOLTAGE	400 V
MAXIMUM PLATE DISSIPATION	12 W
MAXIMUM SCREEN DISSIPATION	8 W
MAXIMUM CATHODE CURRENT	200 mA
TV line-output pentode with pulse ratings.	

Series-heater line-output pentode for television time-base service.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1951 Mullard Valve and Service Manual

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

1951 MULLARD VALVE AND SERVICE MANUAL

Section 1 · Pentode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterOrFilamentVoltage	30 V	—
HeaterOrFilamentCurrent	300 mA	—
Application	LineTimeBaseOutput	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1958 Mullard Receiving Tubes

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

1958 MULLARD RECEIVING TUBES

Section 1 · Pentode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Typical Plate Voltage	200 V	—
Typical Screen Voltage	200 V	—
Plate Current	75 mA	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Plate Voltage	8000 V	Pulse
Booster Plate Voltage	1200 V	LineOutputService

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
Characteristic plate voltage	200 V	—
Characteristic screen voltage	200 V	—
Characteristic grid voltage	-5.5 V	—
Plate current	75 mA	—
Screen current	9 mA	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input capacitance	18 pF	—
Output capacitance	6.5 pF	—
Plate-grid capacitance maximum	1.2 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate pulse voltage maximum	8000 V	Pulse
Plate supply voltage maximum	1200 V	—
Screen pulse/supply voltage maximum	800 V	—
Grid resistance maximum at plate dissipation <25 W	500 kohm	—
Grid resistance maximum at plate dissipation <9 W	800 kohm	—
Heater-cathode voltage maximum	200 V	—