

ELECTRONIC TUBE REFERENCE

TSP4

Voltage Pentode - High Frequency (single) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
PENTODE

High-slope pentode designed for HF and IF amplification and for cathode-ray-tube modulation. Its substantial transconductance supports high-frequency signal gain and video-type modulation duties.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	7
NOMINAL HEATER	4 V / 1.3 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Pentode	
TRANSCONDUCTANCE	0.00473 S
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM SCREEN VOLTAGE	250 V
MAXIMUM CATHODE CURRENT	20 mA
Promoted from published Mullard absolute-maximum/limiting-value and characteristic tables; service-specific limits retained in parameter rows.	

High-slope pentode for HF/IF amplification and cathode-ray-tube modulation.

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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterOrFilamentVoltage	4 V	—
HeaterOrFilamentCurrent	1.3 A	—
Transconductance	4730 uS	—
AmplificationFactorGrid1ToGrid2	6730	—
BiasResistance	260 ohm	—
Plate To Grid Capacitance	0.01 pF	—
Input Capacitance	9.6 pF	—
Output Capacitance	7.5 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	200 V	HFOrIFAmplifier
Screen Voltage	200 V	HFOrIFAmplifier
Grid Voltage	-2.5 V	HFOrIFAmplifier
Plate Current	8 mA	HFOrIFAmplifier
Screen Current	1.5 mA	HFOrIFAmplifier
MaxPlateVoltage	250 V	—
MaxScreenVoltage	250 V	—
MaxCathodeCurrent	20 mA	—