

ELECTRONIC TUBE REFERENCE

4673

Voltage - Pentode High Frequency (single) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
PENTODE

High-transconductance pentode developed for high-frequency and television amplification, with published operating conditions for wideband video service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	P30-VIII	BASE PINS	—
NOMINAL HEATER	4 V / 150 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Pentode	
PLATE RESISTANCE	1500000 Ω
TRANSCONDUCTANCE	0.005 S
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM SCREEN VOLTAGE	200 V
MAXIMUM PLATE DISSIPATION	2.5 W
MAXIMUM SCREEN DISSIPATION	0.4 W
MAXIMUM CATHODE CURRENT	15 mA
<i>Promoted only from clearly identified published characteristics/limits; additional operating, capacitance, regulator, gas-tube, and push-pull data retained as section parameters.</i>	

Indirectly heated pentode for high-frequency amplification.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1938 Philips Miniwatt Vacuum Tube Catalog

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

1938 PHILIPS MINIWATT VACUUM TUBE CATALOG

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate current	8 mA	TelevisionAmplifier
Control-grid voltage	-2.5 V	TelevisionAmplifier
Screen voltage	200 V	TelevisionAmplifier
Suppressor-grid voltage	0 V	TelevisionAmplifier
Screen current	1.5 mA	TelevisionAmplifier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance minimum	1500000 Ω	TelevisionAmplifier
Transconductance	5000 μS	TelevisionAmplifier

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	0.012 pF	LessThan
Plate-to-cathode capacitance	7.5 pF	Section1
Grid-to-cathode capacitance	9.6 pF	Section1

1957 Philips Receiving and Amplifying Tubes

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

1957 PHILIPS RECEIVING AND AMPLIFYING TUBES

Section 1 · Pentode

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	High-frequency amplifier	—



SOURCE DATA APPENDIX

1999 Philips 0-D

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

1999 PHILIPS 0-D

Section 1 · Pentode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode capacitance	13 pF	—
Input capacitance	9.6 pF	—
Anode-grid capacitance	<0.012 pF	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Typical plate current	8 mA	V _a =250V; V _{g2} =200V
Typical screen current	1.5 mA	V _a =250V; V _{g2} =200V

TUBE TINKER

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and their source documents.

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