

ELECTRONIC TUBE REFERENCE

UF41

Voltage Pentode - Remote Cutoff (single) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
PENTODE

Variable-mu voltage pentode for gain-controlled RF and IF amplification in low-current series-heater receivers.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	8
NOMINAL HEATER	12.6 V / 100 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Pentode	
PLATE RESISTANCE	600000 Ω
TRANSCONDUCTANCE	0.0022 S
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM SCREEN VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	2 W
MAXIMUM SCREEN DISSIPATION	0.3 W
MAXIMUM CATHODE CURRENT	10 mA
Variable-gain/remote-cutoff pentode; promoted characteristics use the fixed-screen 100 V nominal operating point.	

Variable-mu voltage pentode for radio-frequency or intermediate-frequency amplification. The supplied French datasheet was translated to English for descriptive output.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1953 La Radiotechnique

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

1953 LA RADIOTECHNIQUE

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	100 V	FixedScreen
Screen Voltage	100 V	FixedScreen
Grid Voltage	-2.5 V	FixedScreen
Plate Current	6 mA	FixedScreen
Screen Current	1.75 mA	FixedScreen

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
InputCapacitanceCold	5.3 pF	Cold
Output Capacitance	7 pF	Cold
Plate To Grid Capacitance	0.002 pF	Maximum
InputCapacitanceHot	6.6 pF	Hot



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1957 Philips Receiving and Amplifying Tubes

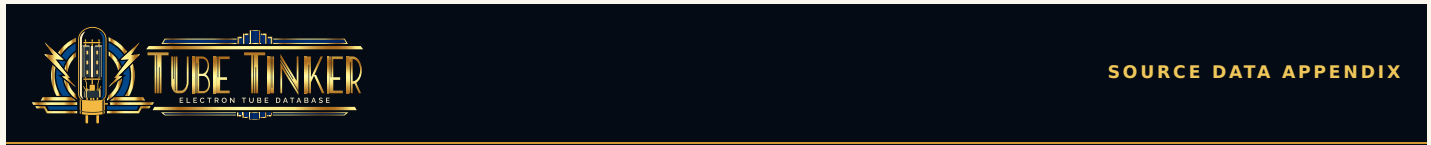
Published test conditions and operating points. Values on this page are preserved as reported by this source.

1957 PHILIPS RECEIVING AND AMPLIFYING TUBES

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	170 V	—
Plate Current	6 mA	—
Screen Voltage	120 V	—
Screen Current	1.75 mA	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	2300 μ S	—
Plate Resistance	1000000 ohm	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1963 Philips Electron Tubes Handbook V1

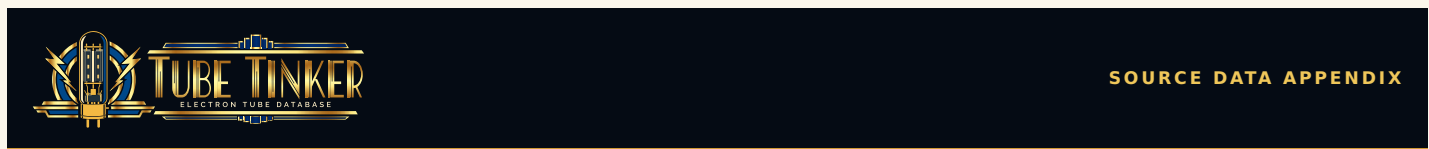
Published test conditions and operating points. Values on this page are preserved as reported by this source.

1963 PHILIPS ELECTRON TUBES HANDBOOK V1

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	170 V	RF/IF amplifier
Screen voltage	100 V	RF/IF amplifier
Plate current	6 mA	RF/IF amplifier
Screen current	1.75 mA	RF/IF amplifier
Maximum plate voltage	250 V	—
Maximum screen voltage	250 V	—
Maximum plate dissipation	2 W	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	2200 μ S	—
Plate resistance	1 Mohm	—



SOURCE OPERATING CONDITIONS

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1967 Mullard Receiving Tubes for Maintenance

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1967 MULLARD RECEIVING TUBES FOR MAINTENANCE

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
I _b 3.3 6.0	7.2 mA	Published in approved UF41.pdf target datasheet; Section1
I _a 2 1.0 1.75	2.1 mA	Published in approved UF41.pdf target datasheet; Section1
I _{g1} 1.9 2.2	2.3 mA	Published in approved UF41.pdf target datasheet; Section1
V _{g2} max. (I _b = 0)	4 mA	Published in approved UF41.pdf target datasheet; Section1
V _{g2} max. (I _a = 0)	7.2 mA	Published in approved UF41.pdf target datasheet; Section1
I _k max	10 mA	Published in approved UF41.pdf target datasheet; Section1



SOURCE OPERATING CONDITIONS

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1968 Mazda Belvu

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

1968 MAZDA BELVU

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Tension filament rrrrererereenenmnennnnenneÜ0 VÉ	12.6 V	—
Courant filament eecresrseesesnseseu. IĚ	100 mA	—
Capacité anode/ grille n° 1. mn Ca/ 81	2 mpF	—
Capacité grille n° 1/ filament CE1/f	0.1 pF	—
Tension d'anode à courant nul Vabl	550 V	—
Tension d'anode c ... Va	250 V	—
Tension de grille n°2 à courant nul ... Vg,bl	550 V	—
Tension de grille n° 2 pour Ia<4 mA Ve	250 V	—
pour Ia=7,2 mA Veg	150 V	—
Dissipation de grille n°2 ... Pg	0.3 W	—
sesvacscenasenee ÎK	10 mA	—
grille de + 0,3 HA urceccrarreremnessecericorcencou- VE	1.3 V	—
Tension entre filament et cathode Vfk	150 V	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Capacité d'entrée sumimmmnmnnnn.s Ce	4.9 pF	—
Capacité de sortie Cs	5.7 pF	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Tension d'alimentation c VN	100 V	—
Tension d'AnOd@ eeererercrorecscercecece VA	100 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Tension de grille n° 2 Ve	100 V	—
Résistance de cathode Rk	325 Ω	—
Tension de grille n°1 Ve; -2,55	-16.55 V	—
Pente S 2,2	0.022 mA	—
Résistance Interne ... p 0,6 >	10 mΩ	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1999 Philips E-Z

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

1999 PHILIPS E-Z

Section 1 · Pentode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Capacitances Cg	5.7 a	Capacitances Cg = 5,7 pF