



ELECTRONIC TUBE REFERENCE

CF3

Voltage - Pentode Remote Cutoff (single) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PENTODE

All-current variable-mu pentode explicitly associated with the AF3 regulating-pentode family. Its extended-control characteristic is intended for automatic gain regulation in receiver high-frequency signal stages.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	8
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	900000 Ω
TRANSCONDUCTANCE	0.0018 S
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM SCREEN VOLTAGE	125 V
MAXIMUM PLATE DISSIPATION	2 W
MAXIMUM SCREEN DISSIPATION	0.4 W
MAXIMUM CATHODE CURRENT	15 mA
Remote-cutoff RF pentode; promoted nominal characteristic set uses $V_a=200/250$ V family data and $V_{g2}=100$ V.	

All-current variable-mu pentode, explicitly cross-referenced to the AF3 regulating-pentode family.



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 voltage	200 V	Published table operating point
Control-grid bias	3 V	Published table operating point
Screen voltage	100 V	Published table operating point
Screen current	2.6 mA	Published table operating point

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	1800000 μS	Published table characteristic
Plate resistance	900000 ohm	Published table characteristic
Heater/filament voltage	13 V	Published heater/filament rating
Heater/filament current	200 mA	Published heater/filament rating

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	0.003 pF	Published table capacitance



SOURCE OPERATING CONDITIONS

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1953 RFT Rundfunk Technik

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

1953 RFT RUNDFUNK TECHNIK

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode voltage	200 V	—
Screen-grid voltage	100 V	—
Anode current over control range	8 to <0.030 mA	—
Screen-grid current over control range	2.6 to <0.01 mA	—
Transconductance over control range	1.8 to 0.002 mA/V	—
Cold anode voltage maximum	550 V	—
Cold screen-grid voltage maximum	400 V	—
Grid leak resistance maximum	2.5 MΩ	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input capacitance	6.6 pF	—
Output capacitance	7.6 pF	—



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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195X Tunsgam

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

195X TUNSGRAM

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Typical screen voltage	100 V	—
Typical plate current	8 mA	—
Maximum no-current anode voltage	550 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum screen no-current voltage	400 V	—
Maximum heater-cathode voltage	125 V	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum transconductance	0.0028 A/V	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum transconductance	2800 μ S	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Typical plate current	8 mA	—

TUBE TINKER

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