



ELECTRONIC TUBE REFERENCE

UF85

Voltage - Pentode Remote Cutoff (single) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PENTODE

Variable-mu or remote-cutoff pentode designed for RF, IF, broadband, or AVC-controlled receiver amplification.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	19 V / 100 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Pentode	
PLATE RESISTANCE	350000 Ω
TRANSCONDUCTANCE	0.0061 S
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM SCREEN VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	2.5 W
MAXIMUM SCREEN DISSIPATION	0.65 W
MAXIMUM CATHODE CURRENT	15 mA
Variable-mu RF/IF pentode for AM/FM intermediate-frequency, RF, and broadband amplifier service.	

Variable-mu RF pentode for AM/FM IF, RF, and broadband amplifier service.



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	9.7 mA	—
Screen Voltage	100 V	—
Screen Current	2.6 mA	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	5900 μ S	—
Plate Resistance	300000 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

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode capacitance	3.2 pF	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Control-grid capacitance	6.9 pF	—
Anode-to-control-grid capacitance	—0.007 pF	Maximum
Control-grid-to-heater capacitance	—0.15 pF	Maximum

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	100 V	RF/IF amplifier
Screen voltage	57 V	RF/IF amplifier; PlateVoltage=100V
Grid voltage	-1.1 V	RF/IF amplifier; PlateVoltage=100V
Plate current	5.5 mA	RF/IF amplifier; PlateVoltage=100V
Screen current	1.6 mA	RF/IF amplifier; PlateVoltage=100V
Plate voltage	170 V	RF/IF amplifier
Screen voltage	100 V	RF/IF amplifier; PlateVoltage=170V
Grid voltage	-2 V	RF/IF amplifier; PlateVoltage=170V
Plate current	9.7 mA	RF/IF amplifier; PlateVoltage=170V
Screen current	2.6 mA	RF/IF amplifier; PlateVoltage=170V
Plate voltage	200 V	RF/IF amplifier
Screen voltage	116 V	RF/IF amplifier; PlateVoltage=200V
Grid voltage	-2.3 V	RF/IF amplifier; PlateVoltage=200V
Plate current	11.4 mA	RF/IF amplifier; PlateVoltage=200V
Screen current	3.1 mA	RF/IF amplifier; PlateVoltage=200V

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	5000 uS	RF/IF amplifier; PlateVoltage=100V
Plate resistance	0.25 MOhm	RF/IF amplifier; PlateVoltage=100V
Transconductance	5900 uS	RF/IF amplifier; PlateVoltage=170V
Plate resistance	0.3 MOhm	RF/IF amplifier; PlateVoltage=170V
Transconductance	6100 uS	RF/IF amplifier; PlateVoltage=200V
Plate resistance	0.35 MOhm	RF/IF amplifier; PlateVoltage=200V

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 Ca	3.7 a	Capacitances Ca = 3,7 pF
Capacités ϕ _ 7.9 bR	7.9 a	Capacités ϕ _ 7.9 bR
— Capacitances Ca	3.2 a	— Capacitances Ca = 3,2 pF
}Input resistance at 100 lc/s	100 s	}Input resistance at 100 lc/s

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes, and their source documents.

[Catalog](#)
 [Tube types](#)
 [Full books](#)
 [Blog](#)
 [Feedback & corrections](#)

© 2026 Tube Tinker