



ELECTRONIC TUBE REFERENCE

4672

Voltage Pentode - High Frequency (single) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PENTODE

Compact acorn pentode for high- and low-frequency amplification and detector service, using low capacitances for high-frequency receiver applications.

GENERAL CHARACTERISTICS

BASE DESIGNATION	WITHOUTBASE-MV	BASE PINS	—
NOMINAL HEATER	6.3 V / 150 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Pentode	
PLATE RESISTANCE	3500000 Ω
TRANSCONDUCTANCE	0.0014 S
AMPLIFICATION FACTOR	5000
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM SCREEN VOLTAGE	100 V
MAXIMUM PLATE DISSIPATION	0.8 W
MAXIMUM SCREEN DISSIPATION	0.15 W
MAXIMUM CATHODE CURRENT	5 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>	

Acorn pentode for HF/LF amplifier and detector service.



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	2 mA	UHF Amplifier
Control-grid voltage	-3 V	UHF Amplifier
Screen voltage	100 V	UHF Amplifier
Suppressor-grid voltage	0 V	UHF Amplifier
Screen current	0.7 mA	UHF Amplifier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	3500000 Ω	UHF Amplifier
Transconductance	1400 μS	UHF Amplifier
Amplification factor	5000	UHF Amplifier

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	0.007 pF	Less Than
Plate-to-cathode capacitance	3 pF	Section 1
Grid-to-cathode capacitance	2.7 pF	Section 1



1963 Mullard

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

1963 MULLARD
Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage operating	90 V	—
Screen voltage operating	90 V	—
Plate current	1.2 mA	—
Control-grid voltage	-3 V	—
Screen current	0.5 mA	—
Alternate plate voltage	250 V	—
Alternate screen voltage	100 V	—
Alternate plate current	2 mA	—
Alternate screen current	0.7 mA	—
Plate voltage maximum	250 V	—
Plate dissipation maximum	0.8 W	—
Cathode current maximum	5 mA	—
Screen voltage maximum	100 V	—
Screen dissipation maximum	0.15 W	—
Grid circuit resistance maximum	3 Mohm	—
Heater-cathode voltage maximum	50 V	—
Heater-cathode resistance maximum	20000 ohm	—

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	1.1 mA/V	—
Plate resistance	1 Mohm	—
Alternate transconductance	1.4 mA/V	—
Alternate plate resistance	1.5 Mohm	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate-grid capacitance maximum	0.007 pF	—
Grid-input capacitance	3 pF	—
Output capacitance	3.4 pF	—
Grid-filament capacitance	0.18 pF	—

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	HF/LF amplifier and detector	—