



ELECTRONIC TUBE REFERENCE

EL37

Power - Pentode (NOT beam) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PENTODE

25 W output pentode for high-power push-pull audio amplifiers and large power-triode driver stages.

GENERAL CHARACTERISTICS

BASE DESIGNATION	Octal	BASE PINS	8
NOMINAL HEATER	6.3 V / 1.4 A	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Pentode	
PLATE RESISTANCE	135000 Ω
TRANSCONDUCTANCE	0.0065 S
AMPLIFICATION FACTOR	10
MAXIMUM PLATE VOLTAGE	400 V
MAXIMUM SCREEN VOLTAGE	400 V
MAXIMUM PLATE DISSIPATION	25 W
MAXIMUM SCREEN DISSIPATION	6 W
MAXIMUM CATHODE CURRENT	200 mA
<i>Published source values promoted where applicable; additional values retained as parameters.</i>	

25-watt output pentode for high-power push-pull audio amplifiers and as a driver for large power-triode output stages.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1951 Mullard Valve and Service Manual

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

1951 MULLARD VALVE AND SERVICE MANUAL

Section 1 · Pentode

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Service	Audio power output	—
Triode-connected push-pull operation	Published	TriodeConnection;PushPull



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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
Anode current	100 mA	Pentode; Va=250V
Screen current	13.5 mA	Pentode; Va=250V
Output power	10.5 W	SingleValve; 10% distortion
Push-pull output power	69 W	PushPull; TwoTubes; FixedBias

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Triode plate resistance	1400 ohm	TriodeConnection
Triode transconductance	6500 uS	TriodeConnection

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1967 Mullard Receiving Tubes for Maintenance

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

1967 MULLARD RECEIVING TUBES FOR MAINTENANCE

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	250 V	ClassA PentodeConnection
Screen-grid voltage	250 V	ClassA PentodeConnection
Control-grid voltage	-13.5 V	ClassA PentodeConnection
Plate current	100 mA	ClassA PentodeConnection
Screen-grid current	13.5 mA	ClassA PentodeConnection
Transconductance	11 mA/V	ClassA PentodeConnection
Plate resistance	13.5 kOhm	ClassA PentodeConnection
Load resistance	2.5 kOhm	ClassA PentodeConnection
Power output	10.5 W	ClassA PentodeConnection
Power output	35 W	PushPull SelfBias TwoTubes 325V
Power output	69 W	PushPull FixedBias TwoTubes 400V
Plate voltage	300 V	TriodeConnection
Transconductance	6.5 mA/V	TriodeConnection
Amplification factor	9	TriodeConnection
Plate resistance	1.4 kOhm	TriodeConnection
Maximum plate voltage	400 V	PentodeConnection
Maximum plate dissipation	25 W	PentodeConnection
Maximum screen-grid voltage	400 V	PentodeConnection
Maximum screen-grid dissipation	6 W	PentodeConnection
Maximum cathode current	200 mA	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input capacitance	17.5 pF	—
Output capacitance	9 pF	—
Anode-grid capacitance	1 pF	—

TUBE TINKER

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and their source documents.

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