



ELECTRONIC TUBE REFERENCE

DL33

Power - Pentode (NOT beam) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PENTODE

Centre-tapped-filament battery output pentode designed for Class-A audio service. Its filament arrangement provides flexibility for portable receiver power supplies while delivering low-frequency output power.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	8
NOMINAL HEATER	2.8 V / 50 mA	PARALLEL HEATER	1.4 V / 100 mA
HEATING	Direct	SERIES OPERATION	Capable
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Pentode	
PLATE RESISTANCE	100000 Ω
TRANSCONDUCTANCE	0.0022 S
MAXIMUM PLATE VOLTAGE	110 V
MAXIMUM SCREEN VOLTAGE	110 V
MAXIMUM CATHODE CURRENT	12 mA
<i>Published ratings and characteristics promoted semantically from the approved source; repeated identical physical sections compressed where applicable.</i>	

Centre-tapped-filament battery output pentode for Class A audio service.



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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	110 V	ParallelFilament
Screen Voltage	110 V	ParallelFilament
Plate Current	10 mA	ParallelFilament
Power Output	400 mW	ParallelFilament

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	2200 μ S	ParallelFilament
Plate Resistance	100000 ohm	ParallelFilament



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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterOrFilamentVoltage	2.8 V	—
HeaterOrFilamentCurrent	50 mA	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	90 V	ClassA;SeriesFilament
Screen Voltage	90 V	ClassA;SeriesFilament
Control Grid Voltage	-4.5 V	ClassA
Plate Current	8 mA	ClassA
Screen Current	1 mA	ClassA
Load Resistance	8 kohm	ClassA
Power Output	230 mW	ClassA
Power Output	400 mW	ClassA;ParallelFilament;PlateVoltage=110V
GridResistanceMaximum	1 Mohm	—