

ELECTRONIC TUBE REFERENCE

QP21

Power - Pentode Single (NOT beam) (under 10W) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

PENTODE-PENTODE

Quiescent push-pull double pentode for 2-volt battery receiver output stages, designed for low standing current and economical high-tension battery consumption.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	7
NOMINAL HEATER	2 V / 400 mA	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Common cathode	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Pentode	
TRANSCONDUCTANCE	0.0023 S
MAXIMUM PLATE VOLTAGE	150 V
MAXIMUM SCREEN VOLTAGE	150 V
Published ratings and characteristics promoted from the approved datasheet.	

SECTION2 Pentode	
TRANSCONDUCTANCE	0.0023 S
MAXIMUM PLATE VOLTAGE	150 V
MAXIMUM SCREEN VOLTAGE	150 V
Second physical pentode section; added to align rows with SectionCount.	

Two pentode systems in one envelope for quiescent push-pull output service in 2-volt battery receivers, designed for low standing anode current and increased power output with economical average H.T. current.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1937 Osram Valves

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

1937 OSRAM VALVES

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	2 V	Published datasheet value
Heater Current	400 mA	Published datasheet value
Anode Voltage Maximum	150 V	Published datasheet value
Screen Voltage Maximum	150 V	Published datasheet value
Output Load Resistance	25000 ohm	AnodeToAnode; AnodeVoltage=150V
Average Full Load Anode Current	12.5 mA	AnodeVoltage=150V

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Mutual Conductance	2300 μ S	Published datasheet value



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

193X Osram

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

193X OSRAM

Section 1 · Pentode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Output load resistance anode-to-anode	25000 ohm	Published datasheet value

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Average quiescent anode current	3.5 mA	Published datasheet value

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