



ELECTRONIC TUBE REFERENCE

7737

Voltage - Pentode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PENTODE

Premium-quality rugged pentode specified for a 10,000-hour service life. Amperex documentation emphasizes extended operating life and robust construction, making reliability and longevity its defining distinctions.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	6.3 V / 320 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Pentode	
PLATE RESISTANCE	100000 Ω
TRANSCONDUCTANCE	0.0165 S
MAXIMUM PLATE VOLTAGE	210 V
MAXIMUM SCREEN VOLTAGE	175 V
MAXIMUM PLATE DISSIPATION	3 W
MAXIMUM SCREEN DISSIPATION	0.7 W
MAXIMUM CATHODE CURRENT	25 mA
<i>Published ratings/characteristics promoted from the source; representative section used for repeated identical systems where applicable.</i>	

7737 is a Pentode device in the supplied Amperex literature. Premium-quality 10,000-hour rugged pentode.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1953 Amperex

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

1953 AMPEREX

Section 1 · Pentode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Resistance	100000 ohm	—
Transconductance	16500 μ S	—
Amplification Factor	53	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Voltage	210 V	—
Maximum Screen Voltage	175 V	—
Maximum Plate Dissipation	3 W	—
Maximum Screen Dissipation	0.7 W	—
Maximum Cathode Current	25 mA	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1963 Amperex Condensed

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

1963 AMPEREX CONDENSED

Section 1 · Pentode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input capacitance	7.6 pF	—
Output capacitance	3.3 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cathode resistor	630 ohm	—
Anode current	13 mA	—
Screen current	3.3 mA	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	16500 uS	—
Amplification factor	53	—
Plate resistance	0.1 MOhm	—

TUBE TINKER

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and their source documents.

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