



ELECTRONIC TUBE REFERENCE

7751

Power - Pentode (NOT beam) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
PENTODE

Rugged long-life power pentode for high-current switching, regulated-supply pass service, and high-power push-pull operation.

GENERAL CHARACTERISTICS

BASE DESIGNATION	Octal / 7AC	BASE PINS	8
NOMINAL HEATER	6.3 V / 1.2 A	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Pentode	
PLATE RESISTANCE	5000 Ω
TRANSCONDUCTANCE	0.014 S
AMPLIFICATION FACTOR	5.6
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM SCREEN VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	10 W
MAXIMUM SCREEN DISSIPATION	5 W
MAXIMUM CATHODE CURRENT	200 mA
<i>Beam power pentode; characteristics at 100 V plate/screen.</i>	

The Telefunken 7751 is a rugged long-life power pentode for high-current service, including 30 W push-pull Class B operation.



SOURCE OPERATING CONDITIONS

1959 Telefunken

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

1959 TELEFUNKEN

Section 1 · Pentode

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	100 V	—
Screen Voltage	100 V	—
Plate Current	100 mA	—
Transconductance	14000 μ S	—
Guaranteed Life	10000 h	Average of 100 tubes

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Power Output	30 W	ClassB; PushPull; TwoTubes; PlateVoltage=250V; ScreenVoltage=170V



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1960 CBS Hytron

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

1960 CBS HYTRON

Section 1 · Pentode

CAPACITANCE

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input capacitance	17.5 pF	—
Output capacitance	9 pF	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance maximum	1.3 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate supply voltage at zero current	550 V	—
Screen-grid supply voltage at zero current	550 V	—
Plate and screen total dissipation	13 W	—

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate supply voltage	100 V	—
Screen-grid voltage	100 V	—
Control-grid voltage	-8.2 V	—
Plate current	100 mA	—
Screen-grid current	7 mA	—
Internal resistance at zero grid bias	100 Ohm	—

TUBE TINKER

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