



ELECTRONIC TUBE REFERENCE

EL156

Power - Pentode (NOT beam) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PENTODE

High-power 50 W output pentode for demanding audio amplifiers and high-output push-pull Class AB stages.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	5
NOMINAL HEATER	6.3 V / 1.9 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Pentode	
PLATE RESISTANCE	25000 Ω
TRANSCONDUCTANCE	0.01 S
MAXIMUM PLATE VOLTAGE	800 V
MAXIMUM SCREEN VOLTAGE	450 V
MAXIMUM PLATE DISSIPATION	50 W
MAXIMUM SCREEN DISSIPATION	12 W
MAXIMUM CATHODE CURRENT	180 mA
<i>Promoted values come from the supplied datasheet; additional ratings, characteristics, and operating points are retained in TUBE_SECTION_PARAMETER.</i>	

50-watt high-power amplifier pentode for demanding audio power stages, including high-output push-pull class-AB operation.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1959 Telefunken

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

1959 TELEFUNKEN

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate cold voltage	1600 V	—
Screen-grid cold voltage	800 V	—
Plate voltage	800 V	ClassAB;PushPull;FixedBias
Screen-grid voltage	350 V	ClassAB;PushPull;FixedBias
Control-grid bias	-24 V	ClassAB;PushPull;FixedBias
Plate quiescent current	45 mA	ClassAB;PushPull;PerTube
Plate current at maximum signal	120 mA	ClassAB;PushPull;PerTube
Plate-to-plate load resistance	9500 Ohm	ClassAB;PushPull;TwoTubes
Output power	130 W	ClassAB;PushPull;TwoTubes;Va=800V
Output power	105 W	ClassAB;PushPull;TwoTubes;Va=600V
Output power	80 W	ClassAB;PushPull;CathodeBias;Va=600V

TUBE TINKER

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