

ELECTRONIC TUBE REFERENCE

EL3010

Power - Pentode (NOT beam) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
PENTODE

Rugged long-life power pentode for audio modulation, RF, and single-sideband linear amplification.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 2.2 A	PARALLEL HEATER	6.3 V / 2.2 A
HEATING	Indirect	SERIES OPERATION	Capable
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Pentode	
PLATE RESISTANCE	3800 Ω
TRANSCONDUCTANCE	0.09 S
MAXIMUM PLATE VOLTAGE	800 V
MAXIMUM SCREEN VOLTAGE	160 V
MAXIMUM PLATE DISSIPATION	40 W
MAXIMUM SCREEN DISSIPATION	16 W
Promoted values come from the supplied datasheet; additional ratings, characteristics, and operating points are retained in TUBE_SECTION_PARAMETER.	

Long-life rugged high-reliability power pentode for audio modulator, RF and single-sideband power amplifier service.

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

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	170 V	PointA
Screen-grid voltage	110 V	PointA
Plate current	200 mA	PointA
Transconductance	90000 μ S	PointA
Plate resistance	3800 Ω	PointA
Plate voltage	330 V	PointB
Screen-grid voltage	140 V	PointB
Plate current	100 mA	PointB
Transconductance	50000 μ S	PointB
Plate resistance	7000 Ω	PointB

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Output power	75 W	ClassB;PushPull;TwoTubes;Va=350V
Output power	87 W	ClassB;PushPull;TwoTubes;Va=400V
Output power	115 W	ClassB;PushPull;TwoTubes;Va=800V
RF output power	50 W	ClassAB;SingleSideband;CCS;Va=500V
RF output power	64 W	ClassAB;SingleSideband;ICAS;Va=500V

TUBE TINKER

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and their source documents.

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