



ELECTRONIC TUBE REFERENCE

EL804

Power - Pentode (NOT beam) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PENTODE

High-current wideband output pentode providing substantial current at comparatively low plate voltage.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	6.3 V / 700 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Pentode	
PLATE RESISTANCE	14000 Ω
TRANSCONDUCTANCE	0.01 S
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM SCREEN VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	10 W
MAXIMUM SCREEN DISSIPATION	4 W
MAXIMUM CATHODE CURRENT	100 mA
<i>Published no-load limits U_{a0}/U_{g20} are 550 V; operating maximum plate/screen ratings are 250 V.</i>	

Wide-band output pentode for broadband power-amplifier service.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1953 AEG

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

1953 AEG

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	140 V	—
Screen voltage	170 V	—
Control-grid voltage	-12 V	—
Plate current	70 mA	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	10000 μ S	—
Plate resistance	14 k Ω m	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input capacitance	13 pF	—
Output capacitance	8 pF	—
Grid-plate capacitance	—0.15 pF	—
Grid-heater capacitance	—0.2 pF	—



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

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	140 V	—
Screen-grid voltage	170 V	—
Cathode resistor	160 Ohm	—
Plate current	70 mA	—
Transconductance	10000 uS	—
Plate resistance	14000 Ohm	—
Screen-grid to control-grid amplification ratio	9 ratio	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input capacitance	13 pF	—
Output capacitance	8 pF	—
Grid-to-plate capacitance maximum	0.15 pF	—