



ELECTRONIC TUBE REFERENCE

EL803S

Power - Pentode Single (NOT beam) (under 10W) electronic tube

CONSOLIDATED TECHNICAL
DATA

1 SECTION
CONSTRUCTION
PENTODE

Special-quality long-life rugged EL803-family wideband power pentode for professional broadband amplifiers.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	6.3 V / 640 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Pentode	
PLATE RESISTANCE	100000 Ω
TRANSCONDUCTANCE	0.01 S
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM SCREEN VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	6.5 W
MAXIMUM SCREEN DISSIPATION	1.5 W
MAXIMUM CATHODE CURRENT	40 mA
<i>Promoted ratings and characteristics are taken from the printed target-tube entry in the approved PDF.</i>	

Long-life rugged high-reliability wide-band power pentode with tight tolerances for professional broadband amplifiers.



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
Typical Plate Voltage	200 V	—
Typical Screen Voltage	200 V	—
Typical Plate Current	24 mA	—
Typical Screen Current	4.7 mA	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input Capacitance	10.4 pF	—
Output Capacitance	8 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

Section 1 · Pentode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	200 V	—
Plate current nominal	32 mA	—
Transconductance nominal	10000 μ S	—
Transconductance tolerance	1800 μ S	PlusMinus

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	60000 Ohm	—
Screen-grid to control-grid amplification ratio	22 ratio	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input capacitance	10.4 pF	—
Output capacitance	8 pF	—
Grid-to-plate capacitance maximum	0.12 pF	—

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SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

SOURCE PDF

195X Tesla

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

195X TESLA

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterVoltageNominal	6.3 V	Nominal
HeaterCurrentNominal	1 A	Nominal
Maximum Plate Voltage	800 V	—
Maximum Screen Voltage	300 V	—
Maximum Plate Dissipation	12 W	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	12000 μS	Typical

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ELECTRON TUBE DATABASE

SOURCE DATA APPENDIX

1981 Russian Tubes Katsnelson and Larionov

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

1981 RUSSIAN TUBES KATSNELSON AND LARIONOV

Section 1 · Pentode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	Published nominal/basic-parameter heater condition.
Heater current	650 mA	Published heater current.
Plate current	82 mA	Published basic-parameter operating point.
Screen current	4.7 mA	Published basic-parameter operating point.
Transconductance	10000 μS	Published basic-parameter value; normalized to μS.
Plate resistance	60000 Ω	Published internal/plate resistance.
Amplification factor	22	Published amplification factor.
Input capacitance	10.4 pF	Published in the filename-designated tube entry.
Output capacitance	8.9 pF	Published in the filename-designated tube entry.
Grid-to-plate capacitance	0.12 pF	Published in the filename-designated tube entry.

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	250 V	Published limiting operating value.
Maximum screen voltage	250 V	Published limiting operating value.
Maximum cathode current	40 mA	Published limiting cathode-current value.
Maximum plate dissipation	6.5 W	Published limiting plate-dissipation value.
Maximum screen dissipation	1.5 W	Published limiting screen-dissipation value.

TUBE TINKER

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and their source documents.

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