



ELECTRONIC TUBE REFERENCE

EL84L

Power - Pentode (NOT beam) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
PENTODE

Power pentode designed for low-frequency amplifier output stages. Its miniature construction provides conventional audio power amplification for receivers and other AF equipment.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	6.3 V / 760 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Pentode	
PLATE RESISTANCE	40000 Ω
TRANSCONDUCTANCE	0.0113 S
AMPLIFICATION FACTOR	19
MAXIMUM PLATE VOLTAGE	450 V
MAXIMUM SCREEN VOLTAGE	450 V
MAXIMUM PLATE DISSIPATION	18.5 W
MAXIMUM SCREEN DISSIPATION	2.2 W
MAXIMUM GRID DISSIPATION	0.5 W
MAXIMUM CATHODE CURRENT	100 mA
<i>Promoted ratings and characteristics are taken from the printed target-tube entry in the approved PDF.</i>	

Power pentode for low-frequency amplification in output stages.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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	760 mA	Published heater current.
Plate current	48 mA	Published basic-parameter operating point.
Screen current	5.5 mA	Published basic-parameter operating point.
Transconductance	11300 μ S	Published basic-parameter value; normalized to μ S.
Plate resistance	40000 Ω	Published internal/plate resistance.
Amplification factor	19	Published amplification factor.
Input capacitance	10 pF	Published in the filename-designated tube entry.
Output capacitance	6 pF	Published in the filename-designated tube entry.
Grid-to-plate capacitance	0.5 pF	Published in the filename-designated tube entry.

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	450 V	Published limiting operating value.
Maximum screen voltage	450 V	Published limiting operating value.
Maximum cathode current	100 mA	Published limiting cathode-current value.
Maximum plate dissipation	18.5 W	Published limiting plate-dissipation value.
Maximum screen dissipation	2.2 W	Published limiting screen-dissipation value.