



ELECTRONIC TUBE REFERENCE

IL861

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

CONSOLIDATED TECHNICAL
DATA

1 SECTION
CONSTRUCTION
PENTODE

Co-designation of the EL861 steep-slope output pentode, designed for long service life in output amplifiers used in long-distance communications equipment. It combines broadband power capability with extended professional life.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	20 V / 120 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Pentode	
PLATE RESISTANCE	300000 Ω
TRANSCONDUCTANCE	0.011 S
MAXIMUM PLATE VOLTAGE	210 V
MAXIMUM SCREEN VOLTAGE	210 V
MAXIMUM PLATE DISSIPATION	4.5 W
MAXIMUM SCREEN DISSIPATION	1.2 W
MAXIMUM CATHODE CURRENT	30 mA
Long-life output pentode ratings from shared source sheet.	

IL861 is a printed co-designation/equivalent on the EL861 source sheet. A steep-slope output pentode designed for long service life in output amplifiers used in long-distance communications equipment.

SOURCE OPERATING CONDITIONS

1953 RFT Rundfunk Technik

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

1953 RFT RUNDFUNK TECHNIK

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	210 V	—
Screen-grid voltage	210 V	—
Cathode resistance	120 Ω	—
Plate current	20 mA	—
Screen-grid current	5.3 mA	—
Cold plate voltage maximum	550 V	—
Cold screen-grid voltage maximum	550 V	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	11 mA/V	—
Equivalent noise resistance	1.2 k Ω	—
Voltage gain, preamplifier	175	Preamplifier

TUBE TINKER

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and their source documents.

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